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NATIONAL RIFLE ASSOCIATION

Scott Circle, Washington 6, D. C.

Letter From London

February 13th.

Yesterday I saw another opening of the Second Front. It's not called that. It's called "the softening up process." It's nothing new. What I saw was merely another flight of big Liberator B-24's forming and winging their way out over The Ditch toward targets deep in Fortress Europe.

I spent two evenings with these lads of one B-24 Group. A famous group, with ninety-eight missions to their credit; eighteen months, here and in North Africa. These men saw Ploesti, Vegesack, Rome, Pisa, Frankfurt, and many other big raids. Old-timers in this group have witnessed the loss of eight hundred combat crew members . . .

I talked with twenty-six-year-old Major Barthell, of College Park, Maryland; a damned good navigator, they tell me. He has just completed twenty-five missions. His expression said, "Here I am, still alive—and am I surprised!" . . . He was at Ploesti; went in at about a hundred feet; saw his C.O., just ahead, get hit with 88's at point-blank range; saw the barrage balloon cables so thick his pilot didn't bother to try to dodge them—just crashed in, hoping the tension on the cables at that low altitude would make them brittle. They broke! Barthell saw Heinies swarmed on a flak tower, turned his fifties loose at them and saw them swept off like fragments before a broom . . .

Main topic of conversation in these Groups is, "How many more missions to go?" There's a sort of crossed-fingers tang in their talk. "Fighters were good today. Flak was bad. Lucky me, to get back!" But they want no part of the doughboy's job; especially, the paratroopers' job! Captain Steek, of New York City, has made five crash landings—because he has no desire at all for that long step before the silk opens!

Our last morning there, we went up in the pilot ship to watch the groups form for one of the big raids. An hour before flight time we donned the zippered, fleece-lined flying suits, the parachutes, the helmets, and the heated mittens, and took off in "The Ball of Fire." The Ball of Fire is a "jinx" ship, they say. She's been shot to hell, crashed, done all the things nice ships don't do. But she's doing a fine job still. She's a flying Christmas tree, with vari-colored lights all over her, and a coat of paint that would shame a barber pole, and she acts as the bell mule on which the Group forms.

We climbed steadily to the determined altitude, watching the ships take off behind us. Other Lib fields in all directions were alive with the same kind of movement and The Ball of Fire started shooting flares of our Group's color to identify herself. The Groups formed swiftly, circling, criss-crossing, picking up strays, filling the ranks. This was to be a pretty big show. Standing in the nose of the ship was like standing at the end of a long pier over deep, translucent water, watching schools of fish swim their graceful, aimless courses below you.

Going back to the tail of our ship, I saw, strung out for miles and spread over a wide area, our own group—ships piloted and manned by those fellows we'd chinned with the night before, now ready for the job ahead.

We wobbled our wings in farewell, banked, and circled behind the formation and followed them out to sea while the photographer took pictures for the C.O. We left them then—and I'm sure all of us could say honestly, with regrets. They looked so powerful, invulnerable, and proud! There were more than a hundred ships . . .

This morning's papers say, "Formations of Liberators and Marauders again struck the unidentified military objectives in the Calais area. One Liberator failed to return."

—BILL SHADEL, *War Correspondent.*

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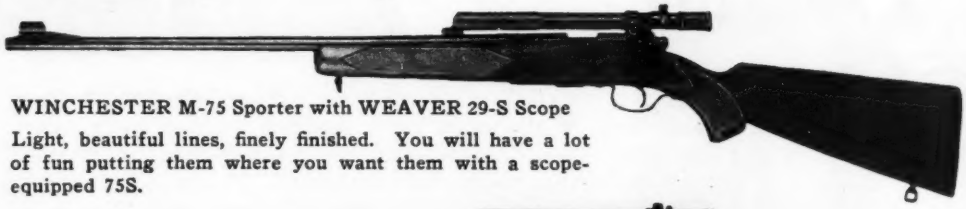

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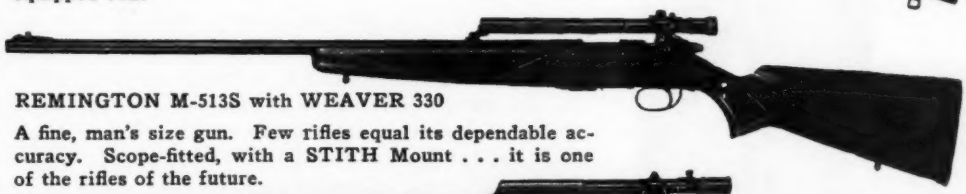

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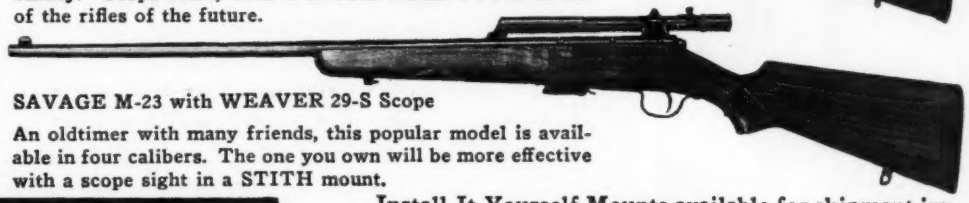

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The *Official Journal of The National Rifle Association of America*

AMERICAN RIFLEMAN

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W. F. SHADEL, *War Correspondent*
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Official U. S. Navy Photo

THE COVER: This serious young marksman, pictured as he checks the .50 caliber machine gun in the waist blister of one of our Navy's PBY Consolidated Catalina Patrol Bombers, is a product of the intensive gunnery training—some of it by NRA men—which has enabled Navy air gunners to run up such staggering scores of enemy planes destroyed. "My guns and I are ready for any foe. At my touch, they blast the enemy out of the sky!" So states the gunner's creed; and Navy training makes it no idle boast.

THIS MONTH

"Snipers In Sicily," by THE RIFLEMAN's War Correspondent, Bill Shadel, is proof from the front of the doctrine NRA has preached for years at home—that it's the man with the rifle who makes the wheels of war go 'round. The tanks were stopped at San Giuseppe Pass. They might have been stopped indefinitely except for that group of expert riflemen who—but that's the story. Read it, and see some NRA friends in action.

"Ghost-Town Chucks," by Charles J. Beise, is a smartly told tale wherein chucks are killed at very long ranges indeed by gentlemen who have made it their hobby to find out just how long those ranges can be. You need not be a super-range addict, or even a chuck shooter, to enjoy the story; and it may give you a new conception of the possibilities of modern guns and modern loads in the hands of experts.

"What d'yuh mean—GUTTER?" is a downright insult to the game we love—but maybe you'd better read it so you'll know what made your shooting friends so hot under the collar, and so you can be on hand with a few suggestions when they start doing something about it?

"No Bad Gunners!" by Lieutenant Ken Clayton, USN, gives a brief glimpse of what a Navy air crewman has to do before he can sit in the seat occupied by the young man on our cover, and why, once in that seat, he is such bad news to enemy aircraft where ever our Navy fights.

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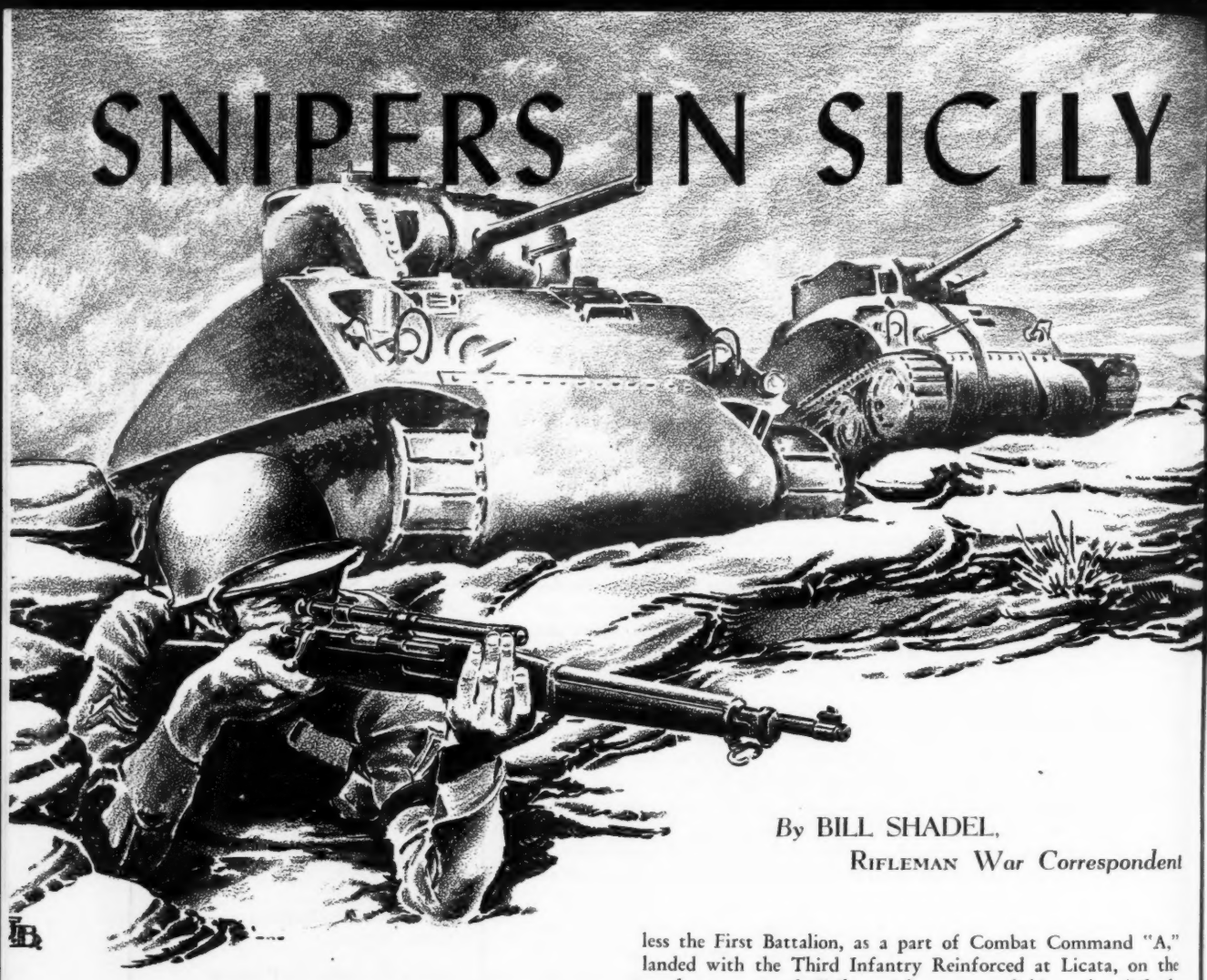
SNIPERS IN SICILY



By BILL SHADEL,
Rifleman War Correspondent

ALGIERS.—The dash across the heart of Sicily, over terrain that would have been ideal for delaying action had the enemy been given time to prepare it, surprised even the most optimistic among the Second Armored Division almost as much as it did the enemy himself. The success of that drive hinged on rapid movement, constant reconnaissance, and the action of small patrols in which expert riflemen played an important part.

I was able to get the story of some of these riflemen from the man who prepared them for just such action; from the Commanding Officer of the Infantry Regiment of the Second Armored Division, that Camp Perry veteran, member of several International Rifle Teams and top-flight pistolman, Colonel Sydney Hinds. It was Colonel Hinds' conception of the possibilities of individual rifle marksmanship in the work of fast-moving armored division infantry that led to the incorporation of several snipers in each company; snipers equipped with 330 Weaver scopes on an improvised mount on the '03 Springfield.

Many instances are cited in which the marksmanship of those men, snipers and ordinary rifleman, trained by an International-ist, a competitive target shooter, paid dividends in precious hours saved in the advance of the armored monsters toward Palermo; hours that meant days in the final result.

The Forty-first Infantry Regiment of the Second Armored, less the First Battalion, as a part of Combat Command "A," landed with the Third Infantry Reinforced at Licata, on the southern coast of Sicily. After accomplishing the difficult landing and having reached the assembly area north of Licata, a group from the Third Battalion of the Forty-first, with one tank company and part of a field artillery battery of self-propelled 105's, was ordered to move toward Canicatti to cut the main road between Licata and Campobello di Licata. After a night of advancing patrols and light skirmishes, the group found itself with part of its mission accomplished, ready for the attack on Canicatti which was to clear the way for the general advance.

It was during this preparation that Lieutenant Colonel Charles G. Rau, 1940 Camp Perry Infantry Pistol Team captain and known to pistol shooters throughout the States, won his Silver Star. The use of his .45 was only incidental, but, to me, it brought out the point of the constant companionship between that weapon and its bearer. Leaving his tanks dispersed below the crest of a knoll, "Chuck" Rau moved forward on foot some fifty yards to cover behind a stone wall. The citation reads: "While in full view of the enemy, Lieutenant Colonel Rau climbed over the wall and proceeded twenty-five yards further to a point of observation." From there, he could see dimly the outline of a German Mark VI tank, evidently waiting to open up on our tanks once they topped the crest of the knoll. "Chuck" pulled his .45 and sighted over it, lining the tank up with more visible landmarks. He then returned to his

group, showed his leading tank man the directions by more sighting over the .45. From the crest of the knoll again, he signalled the tanks up and over, personally directing the fire that resulted in one very thoroughly smashed Mark VI and in the continued advance of his own outfit.

Rau's .45 figured in another "incident" which won for "Chuck" the Soldier's Medal. In one of the occupied towns, early in the North African campaign, a man went completely berserk and proceeded to shoot up the place, spraying rifle bullets at anything and everything that moved. Rau buckled on his .45, spotted the man in the street, and ordered him to lay down his rifle. A bullet slapped past him in answer and "Chuck" leveled off á la Camp Perry, and squeezed. The only weak point in the story is that "Chuck" forgot what seventy-five or more yards do to a .45 bullet, with the result that, although he aimed at the man's belly, he scored a hit on one ankle! It did the business, however. It spun the crazed "badman" around and knocked him down, leaving him ready for disarming.

But to get back to the attack on Canicatti and the story of yet another Silver Star Citation for an NRA member: Colonel Hinds and a group of other officers, watching the preparation for the attack, saw what seemed to be a white flag in the town, and Colonel Hinds was ordered to move in. Anxious (as he always is, his driver tells me) to be in the thick of the action, Colonel Hinds and four others moved forward in a half-track. He was out ahead of everyone and nearing the town when the enemy—regardless of the white flag, if, indeed, there had ever been one—opened fire. Small arms rattled first, with artillery tuning in a few seconds later. The half-track was "no fitten place fer man ner beast" and its occupants left it. "Sid" Hinds and two others dived into a ditch that yawned conveniently beside them. Lieutenant W. W. Bundy, the signal officer, was working on the radio when it happened and he dived under the truck. Incidentally, he finished repairing that radio; and, incidentally again, he came out of the affair smelling better than his companions—for the ditch into which Hinds and the others had jumped had once served as a latrine!

It was an exposed and unfragrant "command post" but Colonel Hinds managed to keep his head "on top" and, by means of the repaired radio, directed his companies in their advance.

That is Colonel Hinds' own version. His citation adds a bit to the story. It reads: "While leading his troops against the enemy, he repeatedly exposed himself to fire of all types to expedite the attack. During the afternoon, night, and morning of the twelfth and thirteenth of July, 1943, Colonel Hinds moved between the front lines of his companies, often traveling in a one-quarter-ton unarmored vehicle, and by his outstanding leadership led them on to the successful conduct of the attack."

After the fall of Canicatti, and after the arrival of the Fifteenth Infantry of the Third Division, a line of outposts was set up near Campobello di Licata. San Cataldo followed and, within a few days, the whole area between Licata and Caltanisetta was cut up and cleaned out by the troops operating therein.

Moving west to Agrigento, on the eighteenth of July the Second Armored was once more assembled. On the twentieth, it was ready for the big flanking movement north of Palermo, keeping pace with the advance of the Third Infantry along a more direct route from the south. By the afternoon of the twenty-first, it was before Castelvetrano, the air base, which fell immediately.

Only by study of the map can you appreciate the speed and distances involved in this flanking maneuver. On the twenty-second, with the Forty-first Infantry Regiment forming the advance guard, the long trek toward Palermo began.

The action at San Giuseppe pass, outside Palermo, is an example of how individual rifle marksmanship in the action of small patrols enabled the column to advance so swiftly.

To slow up that advance, the Germans had placed in San Giuseppe Pass, on its north side, one 88 mm., a machine gun, and about a platoon of riflemen. Dug in on the far slope of a hill, overlooking a valley beyond the pass, the 88 covered the narrow gap while the machine gun and the riflemen protected it and at the same time covered any advance through

LINE OF RETREAT OF NAZI SURVIVORS
MACHINE GUN
88mm. PIECE
RIFLEMEN
LT. MAUPIN'S FLANKING MOVE TO BRING RIFLE FIRE ON CREWMEN OF GERMAN 88 WHICH WAS COVERING THE MOUTH OF THE PASS.
Road to Palermo
MACHINE GUN
MORTAR
San Giuseppe Pass
RIFLEMEN AND SNIPERS
AMERICAN COLUMN HALTED BY GERMAN ARTILLERY FIRE....
JB.

the Pass or by way of the high, rocky cliffs on either side.

The fire of that well-placed 88 halted the advancing column. But not for long! Lieutenant J. K. Maupin, of Washington, Missouri, (who received the Silver Star for his handling of this problem) moved his platoon up the steep cliffs on the left of the pass to a point overlooking the valley. Meanwhile, a .30 caliber machine gun and a 60 mm. mortar were moved into position on the right bank of the pass.

Lieutenant Maupin's riflemen (including two snipers with scope-sighted Springfields) opened fire. The range was some 500 yards, but these men had been trained by "Sid" Hinds!

Once in position, they could assume prone, sitting, or kneeling positions, pick their targets deliberately, and shoot. It was a rifleman's field day! The German machine gun crew wilted; hits drove the supporting infantry to deeper cover. One of the snipers told me of resting his rifle on a rock, getting his shots off, and watching his hits through his scope. Telling the story, these men talked the same lingo, used the same phrases, I've heard so often at Perry! They were doping their windage and calling their shots!

Their one disappointment was that they couldn't pick off the crew of the 88. The Germans working the big gun were well hidden between the gun's shield and the bank of the emplacement, and the rifle slugs bounced off the armor. But, again, not for long!

Lieutenant Maupin decided on a flanking movement of his own. Leaving a squad of riflemen and his newly arrived machine gun on the cliff, he took the rest of the platoon on a further swing to the left and forward. His new position enabled him to lay aimed fire on the 88 from the side and that, combined with the fire of the mortar which was just now coming into action, drove the Heinies out and back through the orchards to their rear, with well-placed mortar bursts and long-range rifle shots snapping at their heels.

Colonel Hinds, following this action in his command car, was unable to resist those skittering targets. He grabbed his star-gauged Springfield, climbed the right bank of the pass (where one of his lieutenants was cussing the little carbine which he had been firing hopelessly at that distance), assumed the prone, and cut down! Colonel Hinds claims no hits, and whether that is undue modesty I don't know. But I do know that I wouldn't have wanted to be his target, even at those six- to eight-hundred-yard ranges!

This action consumed less than an hour. What would otherwise have been a considerable delay for the entire column was, instead, hardly more than a rest halt. Why? Because the riflemen were there and because they knew how to do the job!

The move on into Palermo, ending a day ahead of even the most optimistic forecasts, is history. Perhaps not so well known, however, is Colonel Hinds' part in the surrender of Italian General Molinero. It was in the early evening dusk, on the outskirts of Palermo. A messenger informed Colonel Hinds that an Italian officer with what appeared to be several staff members was nearby, asking to be allowed to surrender. The Colonel figured that the surrender of any such high-ranking officer should be made to higher authority; and, besides, he was busy! Anyway, he told his S-2 to send the Italian back to General Rose, Combat Command "A."

General Rose was busy, too, apparently. At any rate, he sent the Italian on to General Keyes. General Keyes, for some reason, sent him back to General Rose—and General Rose, not to be outdone, sent him back to Colonel Hinds! Colonel Hinds, still unaware of the Italian's rank, turned him over to his S-2 for safekeeping until morning! And he was safely kept, all right. An American sentry simply replaced the Italian guard outside the Italian General's own headquarters—and the surrender was accomplished the following day!

Colonel Sydney Hinds is still a rifleman. Visiting his quarters, one senses the pride with which he displays his regiment's sniper equipment. He told us how he had managed to have his armorer make improvised scope mounts and rough wooden guards for the protection of the scopes "wangled" from back in the States. He himself chose the post reticule with which the scopes are equipped. And he has had a mimeographed bulletin made up for the instruction and training of special riflemen; a bulletin which is being forwarded and which may appear later in THE RIFLEMAN. Colonel Hinds has personally observed the progress of his men on the range and has selected his snipers from the expert groups.

"Snipers," he says, "are provided to supplement men equipped with regulation arms and equipment. Usually two in number per infantry company, their principal duty is to kill enemy personnel noted to be in command, from squad leaders on up—and weapons personnel . . . Defensively, snipers can be used to guard routes of approach. A few well-placed snipers can adequately perform the duties of a much larger force. One instance of this was noted in Eastern Sicily where three German snipers

had to be blasted out of a pass with some five hundred rounds of 155 mm. artillery fire and at the cost of much valuable time. Even then, there was no proof that the snipers may not have left the position in time to escape the artillery fire and to set up elsewhere!"

Colonel Hinds carries his belief in the value of snipers even outside the actual combat areas. "When bivouacked or stationed in a hostile area peopled with enemy civilians, the sniper can be most useful in protecting communications and preventing sabotage. A few well-placed sniper posts along an exposed section of wire will protect it. In fact, wherever troops serve, in war, the expert rifleman is invaluable!"

(Another article by Bill Shadel on page two of this issue. Colonel Hinds' bulletin for snipers will be published soon. Meanwhile, Shadel has joined the Fifth Army, in Italy, and will have stories to tell of riflemen in action there.—Ed.)

An Editorial

Watch for Parallax!

PARALLAX in a telescope is a bad thing. You move your head and the object you are viewing through the scope appears to move, too. The scope may "bring things closer" but if parallax is present you won't see the object in the correct position with relation to your sights. Remove the parallax by adjusting the optical system and, no matter how you move your head around, the target will remain steadily in your line of vision.

In trying to get a clear view of future small-arms training requirements, both the NRA and the Armed Services are going to have to contend with a lot of "parallax." Read the service journals and the everyday output of newspaper, magazine, and book presses with a view to planning the small-arms program of the future, and the effects of "parallax" immediately become apparent. Talk to a dozen officers and men returned from the various fronts—and *unless they were trained shots before they left the States* you will get a dozen different ideas regarding small-arms training. A man's "optical system" gets out of balance in battle. "Parallax" distorts his view of things. At the front, men ask about the progress of the war from those recently arrived from rear areas. At the front, men become expert in those skills which will save their own lives and kill the greatest number of the enemy *in the immediate area of their own operation.* When they come home their vision of the war has been limited—and distorted—by their *personal* experience.

A colonel returned from the North African theater says, "My men never fired a shot from the prone position. We have wasted too much time teaching firing positions the men never use." A colonel returned from the jungles of the South Pacific says, "We must teach the men to shoot quickly from any position. Prone shooting isn't worth much in the jungle."

A lieutenant whose outfit was in the thick of the Aleutians fighting writes proudly, "The men took the best firing positions they could find, squeezed off their shots, and killed Japs at all ranges up to six hundred yards." A company officer from New Guinea advocates teaching men to shoot all weapons from the hip because "in battle a man doesn't have time to use his sights."

Air Force ground crews, men in training and many high-ranking officers praise the M-1 carbine as the perfect military weapon. A major writing after three weeks on Bougainville says: "I am alarmed by the interest which the brass hats and boys back in the training areas show in the carbine. If they had to kill Japs behind coconut logs and in thick brush, they would soon be looking for a gun that had much more penetration and killing power."

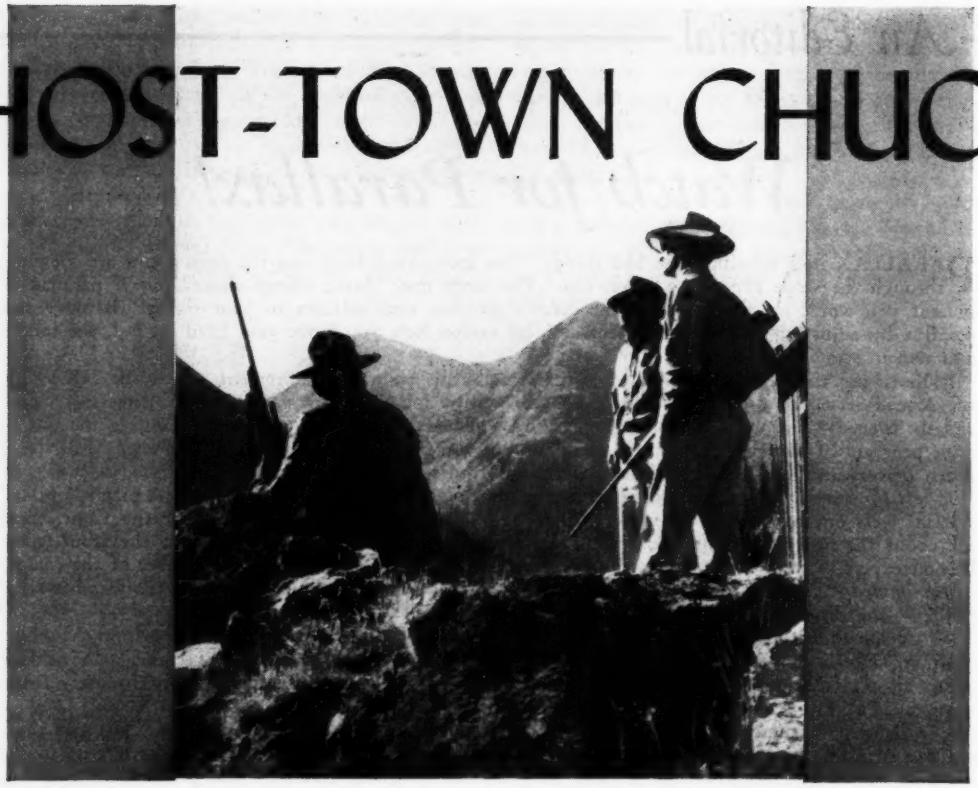
And so it goes. There are those who sincerely advocate each weapon and certain types of training. There are others who, with equal sincerity, curse those things and advocate something else. The more experienced they are in one type of operation, the more positive their opinions and the more difficult to get the "battle parallax" out of their vision.

As these men return to their postwar jobs in civilian life and in the Armed Services, only a few will have gained sufficient breadth of experience to have eliminated "parallax" from their view of our future training needs. Remember this when some soldier, sailor, or marine, buck private, or general officer, "sounds off" about *his* ideas of postwar small arms and small-arms training!

It is fine to have the target "brought up close;" but we must be sure the "parallax" has been eliminated so that we see our objective in its true position. A man who long ago adjusted his battle vision to eliminate parallax is Merritt Edson, Brigadier General of Marines. In the March "AMERICAN RIFLEMAN" he wrote: "Lots of people have wrong ideas about training men for combat shooting. They look for some short cut by which they can teach men to be good combat shots without teaching them the fundamentals of marksmanship. * * * Give him (the soldier—Ed.) a knowledge of, and confidence in, his weapon. Given that he'll learn the other things quickly. * * * Teach him to shoot before he ever goes into the Service. Teach him to shoot again after he's in. Give him refresher courses. 'Frequent application of the seat of the man to the seat of the saddle' is a good way to make a rider; frequent practice is the only way to make a good shooter."

Viewed without war-time parallax *that* should be a good peace-time picture of an intelligent small-arms training program for Americans in the Services and out!—C.B.L.

GHOST-TOWN CHUCKS



By CHARLES J. BEISE

THE REPORT OF a high-powered rifle rattled the one good window of the weather-beaten, snow-scarred hotel of Mineral Point. Four men, all carrying rifles, suddenly appeared from behind the building.

One, the slightest in build of the four, ran to the main street while the others pointed and shouted directions. Reaching the street the man threw himself on the ground, took careful aim and fired again. All was quiet.

The date—August 15, 1943. The place—Mineral Point, in San Juan County, Colorado. The cause—marmots!

For two years, Hitler and Hirohito had interfered with our plans; but by sheer coincidence the four of us, Neel, Barnes, Crawford, and I, had met at Durango. Plans for the hunt were quietly made and here we were at Mineral Point, a ghost town of the silvery San Juan, a deserted silver-boom camp of the 80's, elevation 13,200 feet above sea level, the highest post office ever established in the United States.

"He's over six hundred yards," Crawford said, spotting a grizzled marmot atop a huge boulder on the mountainside above town. Crawford was using his 33-power spotting scope.

"That chuck is so far away he must be in Hinsdale County," Neel confirmed.

The .276 Newton Magnum crashed the mountain silences and re-echoed in the peaks above. The chuck's tail started twisting. Gradually his hold gave way, and down into the canyon, end over end, he fell.

Barnes, who had made the shot, broke all the buttons off his jacket. But I am ahead of my story . . .

Just why any rifleman should attempt to kill chucks at ranges over 400 yards is an enigma to many shooters. Some would question the good sense of such an effort. But, be that as it may, the four of us had spent many hours, over a period of years, attempting to do just that.

Four years before, we had made a similar trip to U. S. Basin to try out the then-new Barnes bullet weighing 125 grains, ahead of fifty-six grains of 4064 in the .30-'06. More than one chuck was killed at ranges of 400 yards. The results of that hunt were presented to gun cranks by THE RIFLEMAN, and letters from all over the nation verified our findings that this load was an excellent one for medium-range chuck shooting. Experience proved, however, that this bullet was too light, of too low sectional density, to be relied on past 400 yards. So we sought new fields.

The O.K.H. calibers gave excellent results. Verner Gipson's .250 Magnum performed well. And still we experimented.

It should be made plain that no gun (or shooter either) is capable of killing a chuck every shot at ranges of 400 to 600 yards; but rifles do exist that, in the hands of a trained prone shot, will give 30 per cent hits at these ranges.

Eastern chuck hunters may well challenge such a statement. Personally, I think the difference in field conditions may account for their skepticism. In altitudes ranging from 10,000 to 13,500 feet in Colorado, the rare, thin air and absence of humidity make such long-range shots possible; and, with a good four-power glass, a chuck at 600 yards presents a distinct target. It is true, of course, that the cross hairs or the Lee Dot cover the target; but if the target is squarely

High altitude shooting with high power rifles at highly improbable ranges—but with pictorial and furry proof that, incredible though it does seem, chucks can be hit "away out yonder!"

Looking from spot where chuck shown in picture below was killed, to the spot (near the building) from which shot was made.

A long "rest" shot with the .270. This gun was next best to the .276 Magnum in our arsenal in point of range. It retained chuck-killing accuracy up to five hundred yards.

Barnes with the .276 Newton Magnum and the chuck shot with it at an estimated range of six hundred yards. See picture above.

covered, a hit is not merely possible; it is entirely probable.

And I here offer another observation, realizing full well that it may be challenged. I have read often, and at first believed, that there was a noticeable change in the point of impact of a gun sighted in at an elevation of 5,000 feet above sea level when that gun was used at altitudes in excess of 10,000 feet. Considerable experience has convinced me that the variation, if any, is too slight to be noticeable, even in chuck shooting at ranges up to 600 yards. On this particular trip all guns had been sighted in at 5,400 feet altitude, and our shooting was at altitudes from 10,000 to 13,400 feet. Not one of the four shooters noticed any appreciable change in the sighting zero. Temperature changes may have affected our observations for it is always cooler at such heights, which would tend to offset the thinner air offering less resistance.

A rifle sighted in at sea level might possibly shoot to a perceptibly different center at extreme altitudes. I have never had an opportunity to make this test. Thin air may make one's breathing gusty but, aside from that, it is no alibi for a miss.

Our arsenal was well adapted for the sport at hand. Neel was using a Model 70 .270 with various loads; Crawford, a Springfield '06 and the proved chuck load given above. I was using Barnes' .257 Roberts barreled by Gipson on a Mauser action with a new 75-grain Barnes spire-point bullet ahead of forty-two grains of 3031, giving a muzzle velocity of about 3400. Barnes had his .276 Newton Magnum barreled by Ackley on a Mauser action with a 140-grain Barnes bullet ahead of seventy grains of 4350 powder, giving a muzzle velocity of about 3600. All guns were equipped with Weaver 440's, cross hair reticules, save one which had a one-and-one-half-inch 100-yard Lee Dot.

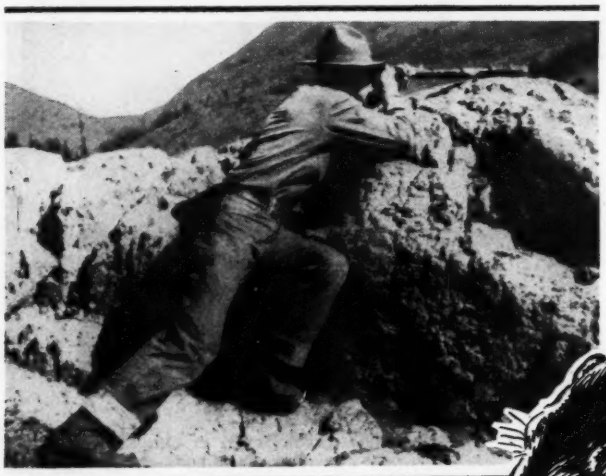
Under good conditions the above battery has the following limits: the '06—400 yards; the .270—500 yards; the .257 (with heavier bullet)—400 yards; the .276 Newton Magnum—600 yards.

In all, bullet weight and good sectional density are far more important than muzzle velocity. All .22 high-powers have

this failing and that is when the Newton comes into its own; it never stops traveling and winds do not affect it excessively.

Chuck No. 1 was contacted in the Animas Canyon below Animas Forks, appearing between some down timbers of an old mill. The range was 250 yards and the chuck was promptly liquidated by Barnes. It was a good shot, but it did not prove anything as to the long-range ability of the Newton.

The '06 and .270 accounted for several more at ranges under 300 yards. All shots under 150 yards were taken offhand and not all were hits. I made four straight misses with the Roberts before I made my first offhand kill. Neel got his the first shot, a dandy, as his chuck was running across an irregular talus slope across the river. No more chucks were forthcoming in the immediate area, so we changed the scene of operations, moving closer to the Ghost Town of Animas Forks.



Even in this rarefied air, chucks at five or six hundred yards are not easily seen without a scope.

The firing line was established on a ledge overlooking the canyon floor and the opposite hillside. Here the Newton made its first 500-yard kill; a good, clean, one-shot hit by Barnes across the canyon and well up the other side. To check bullet performance, we walked to the chuck. The bullet had high sustained velocity as expansion and distintegration were excellent, the kill instantaneous. But the hike convinced us also that we were not in the "pink" of condition and thereafter kills were checked mainly by the spotting scopes. Eight other chucks at ranges from 200 to 400 yards were shot at this point, the young half-grown chucks offering a difficult target.

The secondary road led through the Ghost Town of Animas Forks. Two buildings of this pioneer settlement are worthy of comment. One, a two-holer, was connected to the building it served by a long wooden snowshed containing a window. Either the hardy prospectors granted themselves this one luxury, or the edifice is mute testimony to the rigors of winter at this elevation! The other, a sixteen by twenty, hand-hewn, square log building spiked at six-inch intervals, formerly was used as a jail. Originally built on the opposite side of the town, it was moved to its present location by a snow slide one spring evening. The building was not damaged.

The road led on to Mineral Point, and although it was the middle of August, we passed our first snow bank before reaching our destination. Here, a wide plateau surrounded by higher hills covered by boulders made an ideal home for the marmots. Shots could be taken as far as one could see, the chief difficulty being in locating the chuck. It was here that Barnes made the shot first recounted.

About noon, we sighted another chuck at great range and with Barnes at the Newton organ, taps were played. The distance was in excess of 550 yards, estimated. Rain theatened and we descended to lower levels.

Then the longest shot of the day was made. How far? I guessed 600 yards. Neel said it was 500. Crawford said, "Too —— far for any gun!" Anyway, if you want a good half-day hike scrambling up the hill, I shall be glad to give explicit directions. In fact, over such terrain one cannot check distances even by walking them. It was, in any event, the finest exhibition of long-range, precision chuck shooting I ever witnessed. The "chuck" didn't believe it himself when he saw the bullet coming and he never had time to change his mind.

By this time we were ready to call it a day. Our ammunition was running low and a steady drizzle had set in. The car was headed down the canyon filled with guns, gun paraphernalia, and gun nuts. Gun Nut Crawford reposed in the rear seat. But not for long! He came to life, of a sudden, with a yelp and a scurry of movement.

"Stop the car!" Crawford said, softly. "Just look at him."

About 200 yards up a seventy-degree slope, almost overhead, one could make out the head and shoulders of a large chuck. Crawford, having sighted the chuck, was entitled to the kill. He decided to make it from behind the car. Two shots cracked out, each accompanied by sharp exclamations, appropriately punctuated, of personal discomfort. Crawford was attempting to shoot straight up and the top of his shoulder bone was taking the full recoil. In haste to make the kill, he neglected to work a shell into the chamber. When he "squeezed" the trigger off, there was no report, but the gun muzzle dipped about a foot.

"Don't ease off your shots like that," Neel advised him. "You'll jerk the trigger guard off the stock!"

It was my turn next and I elected an offhand shot. The chuck was nearly overhead and I was faced with the same necessity Crawford had encountered—that of shooting practically straight up. It's not easy, and, as Crawford had just discovered, it's not fun! However, I balanced the gun on top of my shoulder, got the crosshairs right, and squeezed. To my surprise I connected. Chuck "rained" down for several minutes!

The Roberts? The 75-grain bullet was used merely because it was a "pilot" model that needed to be tested. It performed nicely at 300 to 350 yards, but personally I would like to try the 125-grain bullet ahead of a liberal dosage of 4350 for longer ranges. Even if it starts slower, it keeps going longer. And that's what counts in long-range marmot shooting.

I'm the Darnedest Shooter!

By ULRIC S. VANCE

ON ANY LIST of the leading riflemen of the country today, my name can be found. I'm number Sixteen Hundred and Forty-Six.

I don't know why I'm not up there in the first ten. Sometimes (not often, but why quibble?) I start out with a string of V's as long as a covered wagon train. And after that? Oh, boy! Lake Erie bull's! Inconsistent—that's me.

I'm the darnedest shooter! Sometimes it's my fault, sometimes not. I go out on the range wearing a Frank Buck hat and a coat with a lot of pretty patches on it, and the first thing you know my hat blows off, my hair falls down over my face, the wind brings tears to my eyes—I come apart!

I've got a shooting case so full of gadgets that I stagger on my way to the firing line. Sometimes, in fact, I trip or slip in the mud and down I go, gadgets and all. I don't shoot so well, after that, for some reason . . .

But something happens to me when I get into a sporting goods store. The salesman always sells me a lot of things I didn't know I wanted. He loads my shooting case with everything from crow calls and B-batteries to rivets and shellac. I never use any of 'em.

My spotting scope is inconsistent, too. The mirage keeps it in constant motion. Even when I get it focused on the target I can't tell bullet holes from flies—except when what I thought was a bullet hole starts walking.

I get up early for a match and find that I'm on the last relay. I sit around all day, munch crackers and cheese, and wind up with indigestion, heartburn, sunburn, and buck ague. When my relay does come up, it's dark before I can finish my string. They bring in the targets and there is an extra shot on one and three missing off another! When I do get a good target, someone is sure to put his heel through it, or else I lay it down and the wind blows it away, or somebody takes it.

I get all kinds of gun grease on me, and my clothes smell of banana oil and nitro solvent. I burn my eyebrows by leaning too far over while blacking my sights, and when I do get 'em blacked the black comes off on my hands before I get into position to fire.

Then there's that flirty-flirty guy with the thirty-thirty eye who makes you put the exact number of cartridges in your shooting block. I always get two different batches of handloads in mine; one batch groups high and left, the other batch groups low and right.

The weather is against me, too. When I go out in the spring, I always feel kinda lazy and mud-dobbers build nests on my front sight and go in and out of my gun barrel. In the summer, the sun bears down and sweat blinds me and sweat bees pesticate around on my sights. When I wear galoshes, the sun burns my feet. When I don't, I have to wade in the mud. In the fall, the fuzz and pollen gets in my nose and wakes up my hay fever. In the winter, I shake so I can't hold the gun steady.

Once I tried doping my eyes with eyewash the way I'd seen other shooters do before a match. Some smart aleck put mucilage in my eyewash bottle.

I saw fellows kissing their bullets before putting them in their rifles. I tried it once. One of my chums dipped my cartridges in red pepper and alum.

Speaking of positions, I get into some of the darnedest ones! The other night at our range I started shooting in the standing position. Tried the hip rest first and my elbows gouged my side until I couldn't tell whether it was elbow or appendicitis. Then I tried to straight-arm my rifle and the target went round and round.

I tried the sitting position next but got twisted up in my sling. My right leg got over the strap. When I got down, my back was to the targets. My friends cut me loose. I tried again but just as I was pressing the trigger my heels slid out and I darned near dislocated my neck. (I don't care for the sitting position.)

I can't shoot from the kneeling position either. I fell on the ice once when I was a kid and cracked my kneecap. Besides, there's too much avoirdupois around my waist.

I feel more comfortable prone—but I have to go to the doctor after every match. I wear all the skin off my elbows, and the strap cuts a welt across my wrist, and I get a stiff neck and something in my back that feels like lumbago.

I read in a book about holding your breath. I tried that, too. It's no good. I held my breath till I was blue in the face. Then everything went black. How are you going to shoot when you're in a blackout?

I forget to change my sights when I go from one range to another. The other day, the screw came out of my front sight and I lost the aperture out of my rear sight just after the match started. All I could do was fire and fall back.

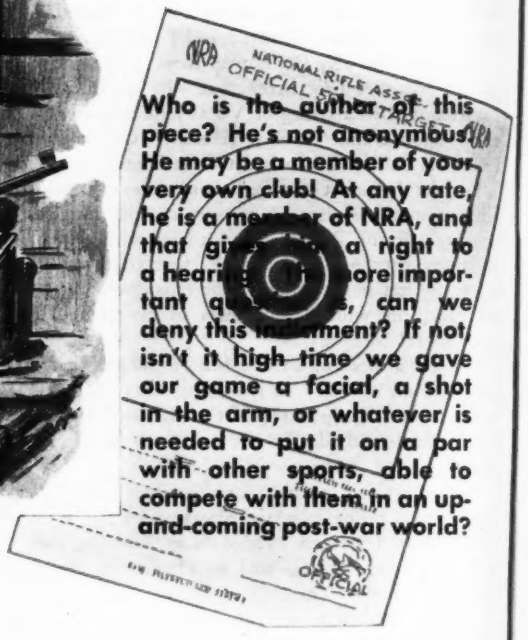
I've got a friend who's a baseball umpire. After the season was over this fall I borrowed his chest protector. The floor of our range is concrete and I thought that protector might help. I got it strapped on me, but it was no good. It wouldn't stretch over my tummy to where it would do me any good, and when it did I found myself bouncing around away up in the air! I felt like a guy hunting mountain goats.

I like .30 caliber shooting, but when I get into my sling I feel cramped. The strap either comes loose and slips down, or else it cuts my arm and is so tight that when I get into position I can't get the gun up high enough to find the target. After each shot, due to the kick, I have to crawl back up to the firing line. Once each string, my elbow slips and I jam the muzzle of the gun into the ground. The fellows laugh at me.

I didn't stay in the handgun game very long. I never could make the thing hold still. Someone gave me an old pistol, but, after shooting it a while, I traded it to my uncle for a mule.

Once I had a string of fives a mile long and then—my hand went to sleep. . . . No, wait; a mile is beyond the legal firing distance! That was a slip. My finger gets all stove up pecking a typewriter. I'm a hard luck guy!

"What d'yuh Mean—GUTTER?"


NRA
NATIONAL RIFLE ASSN.
OFFICIAL
TARGET
Who is the author of this piece? He's not anonymous! He may be a member of your very own club! At any rate, he is a member of NRA, and that gives him a right to a hearing. If more important questions, can we deny this requirement? If not, isn't it high time we gave our game a facial, a shot in the arm, or whatever is needed to put it on a par with other sports, able to compete with them in an up-and-coming post-war world?
OFFICIAL

A FRIEND OF MINE waked me up the other day—not out of a sound sleep, but from a dream; a dream I've cherished since I was twelve years old. It was a rude awakening. It hurt. In fact, it made me as mad as hell! But—well, here's the story:

I was talking, as I often do, about "the great sport of target shooting." My friend said, "Look, I've listened enough to that talk about target shooting being 'a great sport.' It ain't! Not enough people play it, and not enough people ever will play it to make it a great sport, until you guys that do play it pull it up out of the gutter!"

I bristled! I tried to answer him, but the best I could do was, "What d'yuh mean, gutter? Doggone it, you can't—!"

He said, "I mean—gutter! Where do you do this shooting? In somebody's abandoned cow pasture, or an old quarry, or in the dirty cellar of some garage—! Why, that one time you dragged me down to your so-called 'club,' I thought I'd stumbled into a meeting of the local chapter of the Hoboes Guild! Oh, the people were okay, but the place—ye gods! Sure, I know you operate on a cash capital of about two bucks, plus or minus; but *why?* There's plenty of people in this town to support a decent shooting club. Look at our golf and tennis clubs. And bowling! Look at bowling! But bowling was a stepchild, too, until somebody had gumption enough to strip off its disreputable rags and put it in decent surroundings.

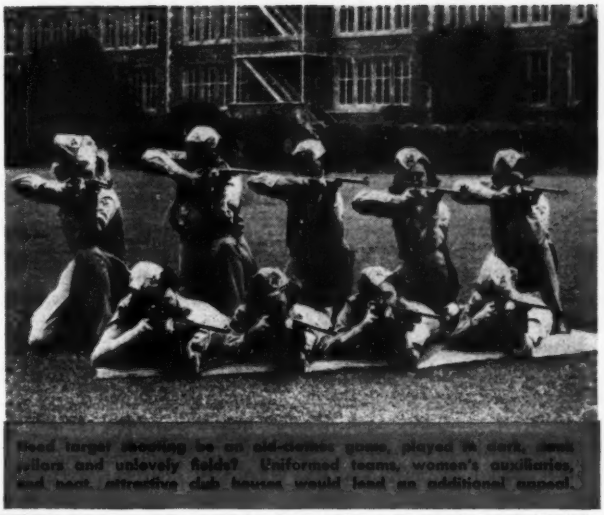
"Target shooting is in the same spot bowling was in. Most men, unless they're gun nuts already, won't be seen in the kind of a 'club' you offer. And as for the women—!"

He laughed. I didn't like the sound of that laughter, but I was too busy thinking to answer. I was thinking about our "club" . . . and what my wife said when I offered to teach her to shoot. "Who, me? On those greasy mats? In that bears' den? Oh, no!"

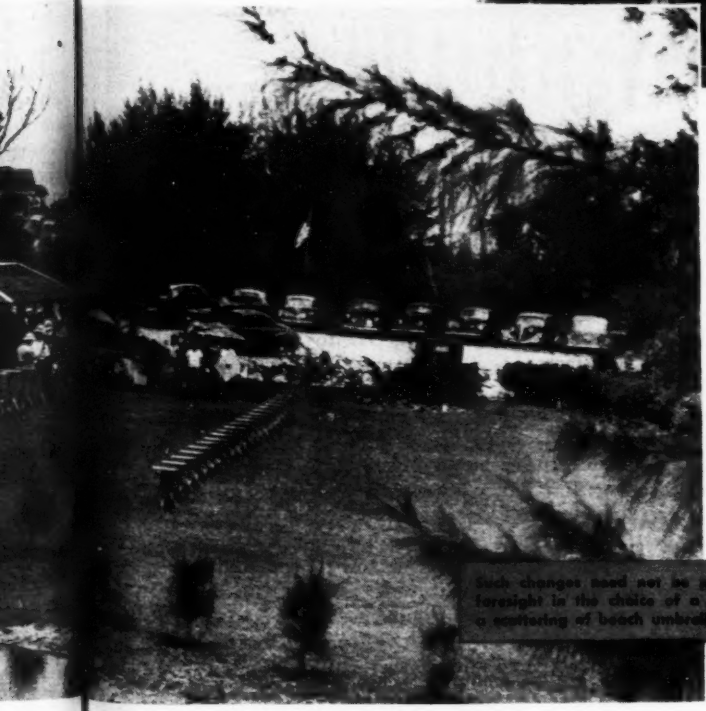
"Don't look down your nose at the mention of women!" my friend was saying. "Women can make or break a sport—and they'll break it if all it does is drag hubby out into surroundings into which wifey won't go, where nothing but boredom awaits her if she does go! Give shooting some spectator interest, why don't you? Or, failing that, the least you could do would be to give it some pleasant surroundings—a bit of grass, a shrub or two, if it's outdoors; a soft-drink bar and some easy chairs, if it's indoors—something you could show your friends without being ashamed of it!

"Another thing—your game's dated! A game has to keep up-to-date, same as anything else. Football was a dog until somebody started throwing passes and revamped it into something more than a pushing contest coupled with genteel mayhem! Tennis was a weak sister until Little Bill Johnson said, 'To hell with politeness; let's cut loose and sock that apple!' You target shooters have fined your game down until nobody but you can enjoy it! You lug around a lot of super-deluxe guns all weighted down with gimcracks and gadgets, and you flop down on your belly and wrap yourself in a sling and—plink holes in paper targets that nobody can see without a scope! Highly skilled work, sure; but so's tombstone carving. And who the hell wants to join a club of tombstone carvers—or pay money to see 'em carve?

"No, sir! You take a tip from me, my friend. Bring your game up to date; make it interesting for the average man to play, make it interesting to watch, put it in pleasant surroundings — and I, and plenty more like me, will pay, not peanuts, but folding money, to share it with you! Until you do—stop calling it a sport!"



Need target shooting be an old-clothes game, played in dark, dank cellars and unlovely fields? Uniformed teams, women's auxiliaries, and neat, attractive club houses would lend an additional appeal.



Such changes need not be prohibitive in cost. Here, at the Fort Lauderdale Police Pistol Club range, foresight in the choice of a setting, plus a few shrubs, a well-kept lawn, an inexpensive shelter and a scattering of beach umbrellas combine to turn a humble range into a thing of real and lasting beauty.

Hard to take, eh? But can you deny it? Sure; but can you *refute* it? I couldn't; and that's why I'm passing it along. Maybe if enough of us get mad enough, we'll do something about it!

Understand, I'm not convinced that target shooting is as bad as he said; but the fact that it needs a major operation to give it the prestige and the popularity it deserves is too obvious for argument. If proof were needed, look at the thousands of gunners all over the country—hunters and plinkers—who never have taken an interest in target shooting and have no present intention of so doing. The game doesn't attract them.

Golf clubs and bowling establishments flourish because they offer their patrons good sport in pleasant surroundings. How many target shooting clubs can compete, in that respect, with what their own community has to offer in other sports?

Skeet clubs thrive because the sport has eye appeal; something breaks! But we stick to our gloomy cellars, to our eroded

pastures, to types of shooting that have no spectator appeal—and do *we* have waiting lists for membership? It is to laugh! We number our club memberships in tens and our national membership in thousands, when the number of hunting licenses alone in this country runs into the millions; licenses issued to gun owners and gun shooters who never see the inside of a target club—or else do see it, and don't return!

What to do about it is not an insurmountable problem. A little grass, a little mowing, a few shrubs, a little lumber, a little paint, a little work—and more of each as the memberships begin to grow; that's the answer to one phase of the problem. Who'll pay? You will, and so will I—at first. But increased membership would lift that load; and, anyway, wouldn't it be worth it?

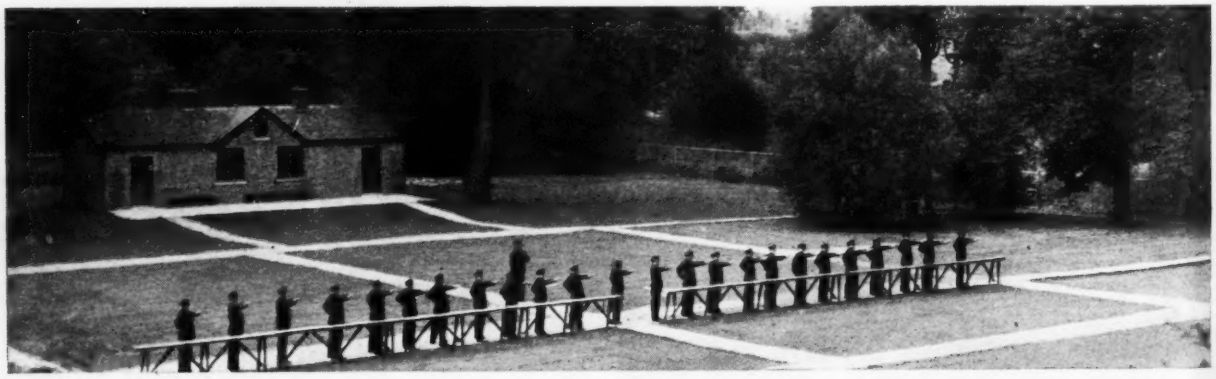
I know I'm sticking my neck out when I mention our shooting methods; our slow-fire, machine-rest, belly-flopping, X-ring courses of fire. But, look: answer me one question. Who's the National Rifle Champion? Who's the best rifle shooter in these here United States? You don't know? Neither do I! One guy wins one match, another guy wins another—and so it goes. And when it's all done, if you could get the top ten riflemen of the country together for a match in Madison Square Garden—you could send the assembled multitude home in two cabs!

The pistol shooters have made some progress in the right direction. Standing on their hind legs, shooting comparatively gadget-free guns over the Timed and Rapid stages of the National Match Course, they've at least kept their game out of the machine-rest phase. And nobody's apt to question the fact that Harry Reeves is Handgun Champion. He won the title by shooting the same guns over identical courses of fire in open, nation-wide competition. I don't say the handgun game has reached a state of perfection; it hasn't. But it's alive—and its increase in popularity far outstrips, in the past few years, the slow growth of interest in the rifle game.

In the not too distant future, a whole generation of shooters will stow away its uniforms and return to civilian life. Can you sit tight and convince yourself that the target shooting game, as is, is going to attract those lads away from other sports that are really making bids for their interest?

If your answer is no—and mine *is*—why not get to work now on ways of renovating the game so it *will* attract them? Let's design rapid-fire matches, surprise targets, bobbers, moving targets—even breakable ones, if possible! Do that, and I've a strong hunch that *all of us* will get more fun out of powder-burning—and we'll have a game that will take its place, as it deserves to do, among the other competitive sports.

True, we've got a war to win, a training program to promote. That's our first consideration, of course. But looking ahead today is our best hope of meeting the challenge of tomorrow! And the challenge is there. It's time we faced it!



A Rifleman's Prayer

"Lord, as I go forth on the range of Life, where distances and winds and the mirage are ever-changing, may I be always mindful of the principles learned on the range. Help me to 'dope' the wind and let my sights stand out black and strong against the target.

"Give me courage to call my shots as I see them. May I be known as one who shoots to win, but always to win honestly. When I lose, may it be cheerfully, with a sincere smile on my face, with a hearty congratulation in my handclasp and not too many alibis upon my lips.

"Let me never hesitate to face unafraid those who would deprive me of my right to own and bear arms for sport or for the protection of my loved ones. May it never be said that I lacked the courage to fight for what I believed to be right.

"When it becomes necessary for me to go into battle to preserve my own independence and the American way of life, may I carry with me even then the guiding principles of the rifleman: to shoot straight, holding firmly, squeezing surely, to kill quickly, painlessly, and without rancor, knowing that as I do so shoot, liberty and freedom are brought that much nearer.

"And, Lord, when this War is over and we return to our normal pursuits, I pray only for the privilege of tramping again in Your fields and woods, a rifle cradled on my arm, a dog by my side, damp leaves or snow under my feet."—Lt. Wayne B. Dow.

BULLET EXPERIMENTS

By F. C. NESS

HAVE YOU EVER SEEN a ballistic engineer at work? Usually, though, it's his assistant who wields the slide rule and does the calculating; so let's watch the assistant ballistic engineer for the moment. He squints at any unclassified bullet, gives it a number from one to ten, and predicates his paper work on that assumption of its nose shape or form value. It is all he can do without a two-range test. Many times he is right, but at other times when we shoot that bullet we find it disregards its calculated paper coefficient. It acts like a different bullet, or according to its own *effective* coefficient. Theory-based calculations may later become confirmed by practice, but not necessarily. Practice is cold-blooded and factual. The difference is analogous to that which exists between the mechanical choke (theoretical) and the ballistic choke (actual) of shotguns.

The reason for this recurring failure of the theoretical ballistic value to fit exactly the action of the bullet in flight is that paper ballistics are based on a perfect point-on flight of the bullet, whereas bullets seldom fly with their long axis coincidental with or exactly parallel to the line of the trajectory. Their helical or spiral path further complicates the issue, and some of them lack stability (that is, they wobble) over a part of the range. Screen shooting has shown that this wobble may be near the muzzle, at midrange, or near the target at the extreme end of the range.

Using the same bullet at approximately standard velocities (hence the same paper coefficient) with the same powder charge in a different barrel having a quicker or slower twist of rifling, changes its fight and alters by that much its ballistic coefficient. Changing the powder load or the bullet's velocity in the same barrel will do the same thing. Even the same load in the same barrel will "act up" at times. When this happens it may become erratic at midrange, and when it does you can look for a different effective "C" value and a poorer ballistic performance beyond that point. When we get abnormally small groups at 200 yards, we expect less bullet drop at 300 and 400 yards. Conversely, when we get abnormally erratic dispersion at midrange, the long-range drop is generally increased; but not always.

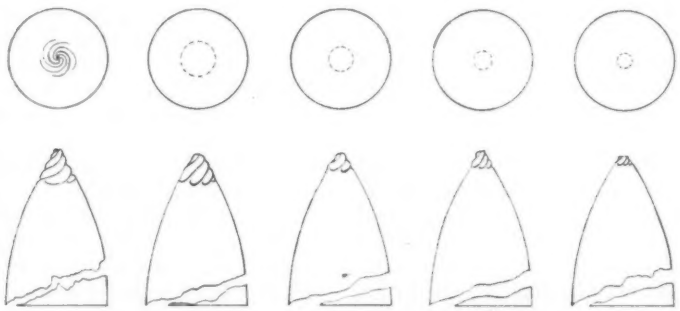
All reliable tables of ballistics for any given bullet, or those most suitable for reference, are based on the true "C" value of that bullet obtained experimentally, or by actual shooting and observation, not by merely squinting at it and making assumptions. When the ballistic coefficient has been so determined, empirically, that fact is usually stated at the head of the table. If it is not there, a two-range chronograph record of the bullet's flight, or a long-range shooting check, is to be desired before accepting its paper coefficient as gospel. A perfectly streamlined bullet which does not fly point-on has a different effective shape or form value than its beautiful lines would indicate on paper or in theory. The proof is in the shooting, or in the actual flight performance of the bullet, regardless of symmetrical design. Every little change affects the bullet's flight and upsets its original and arbitrary coefficient or paper "C" value.

Many and various ideas have been put forth for the purpose of reducing air resistance. The most promising one we have tried was boring the hollow point completely through the base which proved pretty effective with solid lead-alloy bullets. The open base was sealed against the powder thrust with a gas-check cup. The bullet material restricted us to low velocities and short ranges, but the indications were that the central air vent along the long axis of the bullet had some merit. We had no opportunity to develop this experiment fully or to assay its possibilities with jacketed bullets at higher velocities. The loss in sectional density is a drawback.

One of the most persistent ideas repeatedly suggested for our investigation was the spiral nose or screw point for boring through the air; i.e., to make a veritable auger or drill of our spinning rifle bullets. Near the turn of the century, Thomas A. Edison obtained a patent on such projectiles. This idea did not appeal, but the burring of the tips suggested by our friend Wagner did. We sent him some selected Service bullets and he burred their nose tips for our shooting, following his own ideas as to pitch and depth in the nose burring.

What sold me on this idea was the way gas and oil acted in our pipe lines. There might be as many as a dozen different tenders of different fluids (fuel oil, high and low octane gasoline, kerosene, solvents, etc.) end-to-end in the same cross-country pipe line. But they do not mix as long as that constant propelling pressure is maintained in the line. Although the speed of flow is only three miles per hour, the natural laws of turbulence and flow prevail and preclude their mixing even while the ends of all tenders (fluid columns) are in direct contact, each fluid with a different one.

It is, therefore, reasonable to believe that our speedier bullet carries before its tip a column of compressed air which does not mix with the air (the fluid filling the space through which the bullet passes), but becomes a part of our projectile. If so, our bullet becomes a different projectile in flight than it was on the drawing board or in our hand when we squinted at its nose. Theoretically, the beautiful flow lines of a long-nose, streamlined bullet and its sharp point tend to mitigate that slender rod



General types of point-burring tested. Drawings are approximate, not exact.

of compressed air which precedes its tip in flight. If true, then Wagner's point-burring would provide several auxiliary sharp points and flow lines for the same purpose. At least, it seemed worthy of a shooting test. We hoped to break up or overcome that nose pressure.

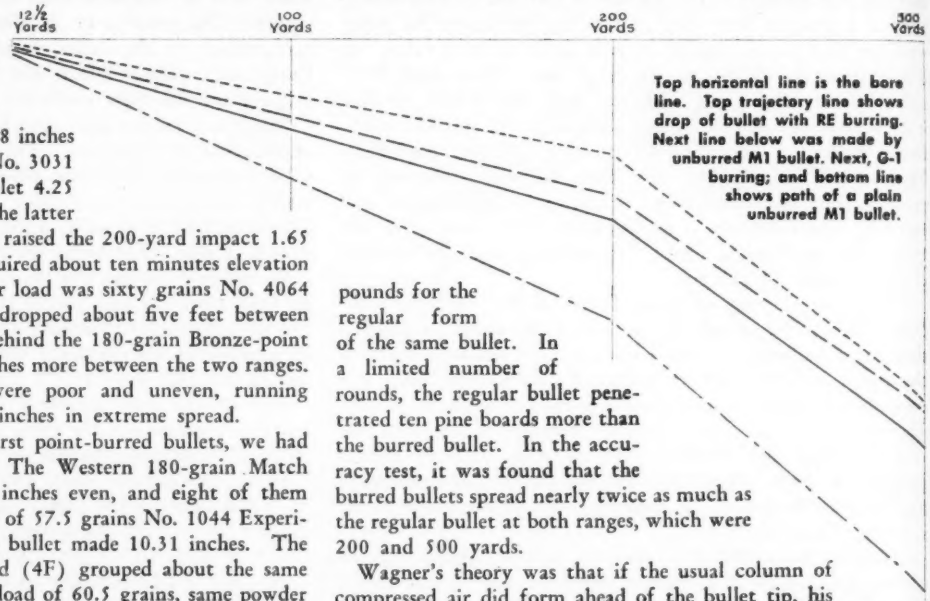
Our two .30 caliber bull guns were elected for the job, and we did some preliminary shooting at 200 and 600 yards. The .300 Magnum gave the same group or spread, within 0.05 inch at 200 yards, with sixty-seven and sixty-eight grains of No. 4350 behind three different bullets; the M2, the M1, and the Peters 180-grain Belted. The latter landed 3.75 inches below aim. At the same shooting, the ninety-three-grain Luger bullet with sixty grains of No. 1185 landed 4.58 inches low, and sixty-two grains of No. 3031 sent the 125-grain Barnes bullet 4.25 inches below aim. Increasing the latter load by two grains of powder raised the 200-yard impact 1.65 inches. For 600 yards we required about ten minutes elevation above the 200-yard zero. Our load was sixty grains No. 4064 behind the M1 bullet, which dropped about five feet between 200 and 600 yards, and also behind the 180-grain Bronze-point which dropped about three inches more between the two ranges. The first 600-yard groups were poor and uneven, running from thirteen to twenty-one inches in extreme spread.

Later, when we tried the first point-burred bullets, we had better groups at 600 yards. The Western 180-grain Match load put its ten shots in ten inches even, and eight of them in 5.38 inches. Our mild load of 57.5 grains No. 1044 Experimental powder behind the M1 bullet made 10.31 inches. The same bullet when finely burred (4F) grouped about the same or in eleven inches. Our full load of 60.5 grains, same powder and bullets, spread its flyers slightly. The M1 bullet now made a group of 12.81 inches, with eight in 9.75 inches, and the same bullet roughly burred (4R) put nine shots in ten inches, eight in 7.88 inches and all ten in 15.63 inches. More interesting was the revelation that the burred bullet (4R) dropped 87.54 inches over 600 yards, while the plain unburred M1 bullet had dropped 100.14 inches. That is better than a two-minute gain for the burred point.

In the same test, our .30-'06 bull gun was tried at 600 yards with the 172-grain Tapered Heel Kleanbore load. All ten shots were in 11.38 inches and eight of them in 7.50 inches. Our handload was fifty grains No. 1044-Ex and the M1 bullet. The group measured 12.94 inches with eight shots in 7.94 inches. With the same powder load the two types of burred bullets gave ten-shot groups of 19.50 and 15.75 inches. Here again the (4R) burred bullet dropped less. It was 105.78 inches against 128.74 inches for the plain M1 bullet—a gain of nearly two feet or more than 3½ minutes of elevation for the burred point.

The normal accuracy was about the same for the burred points, but their flyers went farther out of the normal group. This can be blamed on the imperfection of the mechanical knurling. The knurling tool and bullet holder were in fixed positions and the bullets varied up to 1/64 inch in length. This variation caused greater depth of burring on some bullets than on others. The helical grooves cut into the bullet nose slanted from left to right to conform with the right-hand pitch of the rifling in our .30 caliber barrels. There was a fine groove (4F) in one lot of bullets and a coarse groove (4R) in another lot. Those with the fine groove gave the smaller groups in both rifles. In the .30-'06 it (4F) also drifted twice as far to the right which, however, was only three inches at 600 yards, or less than ½ minute-of-angle. In the .300 Magnum, both burred bullets drifted about the same as the plain M1 bullet.

In a factory test of the 180-grain Match bullet and 49.5 grains of No. 1185 the mean velocity was 2,600 f.s., but the pressure was 47,800 pounds for the burred point against 46,600 pounds for the regular form of the same bullet. In a limited number of rounds, the regular bullet penetrated ten pine boards more than the burred bullet. In the accuracy test, it was found that the burred bullets spread nearly twice as much as the regular bullet at both ranges, which were 200 and 500 yards.


12½ Yards
100 Yards
200 Yards
300 Yards
Top horizontal line is the bore line. Top trajectory line shows drop of bullet with RE burring. Next line below was made by unburred M1 bullet. Next, G-1 burring; and bottom line shows path of a plain unburred M1 bullet.

Wagner's theory was that if the usual column of compressed air did form ahead of the bullet tip, his spiral knurling would tend to overcome any retarding effect by pulling the bullet forward into this column until the air plug became dispersed. To try this out we obtained some more bullets with deeper and coarser knurling. We tried these (RE) in the .300 Magnum up to 300 yards, using sixty-seven grains of No. 4350. The relative gravity drop was 5.43 inches over 200 yards and 17.47 inches over 300 yards. Since these were M1 bullets, we tried some plain unburred bullets of the same lot with the same load. The 300-yard drop was 26.73 inches, or nearly two minutes more. An odd thing was that, although both bullets had drifted about an equal amount to the right at 200 yards, the knurled bullet drifted 3.60 inches to the left at 300 yards, while the unknurled bullet drifted 4.90 inches to the right at the same range. The only accountable force that could have pulled that knurled bullet so far in the opposite direction was the thrust of the air flow through its knurled grooves. However, no such force was proved to be involved by our repeated tests. The only subsequent changes in drift, or lateral displacement, were traceable only to wind or mirage or cant. It is quite possible that the influence existed, although we were unable to pin it down definitely in our very limited tests.

In relation to the *bore line as fired*, we traced the trajectory of every load at 12½, 100, 200, 300, 400, and 600 yards. That was our consistent practice, although some of the loads were not tested beyond 300 or 400 yards as indicated in this report. Our drop figures are relative rather than absolute as we wanted direct comparisons. Results were slightly different on different days as they varied with the weather, but we always

fired the standard bullet under the same conditions for a direct comparison under each and every change in temperature, wind, mirage, and pressure. At 600 yards we used two targets and fired alternately with the standard bullet and the burred bullet in order to insure equal conditions. In short, we were not trying to prove any theory or belief but merely seeking information, all of which is given here.

The repeat test modified our results somewhat and gave us an average drop of 22.20 over 300 yards and 10.53 over 200 yards with the M1 handload against 18.50 and 7.00 inches, respectively, for the same bullet (RE) knurled. This was a medium-coarse knurling at a pitch of about forty-five degrees and it extended along the nose of the bullet to about .14 inch from the tip (see the cut). During the repeat test we added a differently knurled sample of the M1 bullet, coarser and deeper and extending back .04 inch farther. The performance was much poorer with this particular (RA) knurling. In fact, it dropped more than the plain M1 bullet, although it grouped better, just over a minute-of-angle spread. The 300-yard drop was 32.55 inches, and 16.67 inches over 200 yards. At 400 yards the drop was 55.56 inches.

Later we went back to the more successful (RE) type of knurling; this time in medium fine (RM) spacing, instead of (RE) medium coarse, same forty-five-degree pitch and .14 inch extent. Using the same load we had the best results to date. The drop over 200 yards was 7.16 inches; over 300 yards, 16.48 inches; and over 400 yards, 34.98 inches. Then a very fine tip-knurling was tried with the same M1 bullet and load. This fine knurling (G-1) was forty-five degrees in pitch and it extended back less than .10 inch from the tip which now had no definite point. This one dropped 17.90 inches over 300 yards and 6.51 inches over 200 yards, using the same powder load of sixty-seven grains No. 4350. Another shallow knurl was tried the same day. This one (G-3) had a sixty-degree pitch and extended back less than .10 inch. It was of medium grade. The drop was now reduced to 5.86 inches over 200 yards and 15.13 inches over 300 yards. Then a fine forty-degree knurl of .10 inch extent was tried for still further improvement. This one (G-2) dropped only 5.41 inches over 200 yards and but 14.28 inches over 300 yards.

A repeat test with our handload and the plain M1 bullet gave a 300-yard drop of 26.40 inches and 13.26 inches over 200 yards. The Western 180-grain Match load gave 16.93 inches drop over 300 yards and 6.28 inches over 200 yards. We also tried the 150-grain M2 bullet with sixty-eight grains of No. 4350 powder. The plain bullet dropped 12.00 inches over 200 yards, 25.03 inches over 300 yards and 44.86 inches over 400 yards. Using the same load and bullet we tried three types of tip-knurling. The "RB" type (like RA) dropped 30.58 inches over 300 yards and 14.80 inches over 200 yards. The "RX" (right to left) knurling caused a drop of 21.99 inches and 12.06 inches, respectively. This was our first improvement with the lighter M2 bullet. Finally, the "RT" (like G-3) type of knurling got some real results with a drop of only 16.47 inches over 300 yards. The "RB" bullet had dropped 53.48 inches over 400 yards, while the "RX" bullet dropped 41.32 inches over that distance.

RELATIVE DROP OF BULLETS

(Plain and Burred M1 and M2)

.30-'06 and 50 grs. 1044-Exp.		
600 yds.	128.74(M1)	105.78(4R)
.300 Mag. and 60.5 grs. 1044-Exp.		
200 yds.	10.53(M1)	7.00(RE)
300 yds.	22.20(M1)	18.50(RE)
400 yds.	.....	55.56(RA)
600 yds.	100.14(M1)	87.54(4R)
.300 Mag. and 67 grs. 4350		
200 yds.	13.26(M1)	7.16(RE)
200 yds.	.....	6.51(G-1)
200 yds.	6.28(Wn)	5.41(G-2)
300 yds.	16.93(Wn)	14.28(G-2)
300 yds.	26.40(M1)	17.90(G-1)
300 yds.	.....	16.48(RE)
400 yds.	.....	34.98(RE)
.300 Mag. and 68 grs. 4350		
200 yds.	12.00(M2)	12.06(RX)
200 yds.	.....	14.08(RB)
300 yds.	25.03(M2)	21.99(RX)
300 yds.	.....	30.58(RB)
300 yds.	.....	16.47(RT)
400 yds.	44.86(M2)	41.32(RX)
400 yds.	.....	53.48(RB)

These tests were interrupted by the war and they are not conclusive, of course. The results do indicate the possibility of utilizing the rotational velocity to evacuate any point pressure by creating a partial vacuum at the tip of the bullet. We do not at all support the theory of the screw principle with our point-burring tests. On the contrary, we know of no equal success, if any at all, with the screw-thread point on bullets. Wagner considered the screw point briefly but never applied it because it promised nothing, while burring did. As yet, we have not explored the possibilities, but have merely opened the door. The best type of burring must yet be determined and, when found, it may work better at some other velocity with a different bullet in some other caliber. It is interesting to note that no other change than burring the point of a load changes the angle of departure a minute-of-angle in the .300 Magnum and four minutes in the .30-'06. In the factory test this burring of the point increased the chamber pressure 1,200 pounds. Both prove that point burring causes an appreciable change inside the barrel of the rifle.

As has been stated earlier, we were not able to carry our experiments far enough to enable us to account for, or to place any positive interpretation on, the peculiarities of bullet flight which we observed. We can not attribute any definite behavior pattern to nose-burring, nor can we make any accurate predictions concerning it. We can only offer our results for what they are worth, and let our readers attach to them whatever significance he thinks they deserve.

"After all, it's just like duck huntin', only the water ain't as cold!"

"NO BAD GUNNERS!"

By
LIEUTENANT KEN CLAYTON, USN

"I am the pilot's protector, ready to guard him and our plane. Together we are masters of the sky. . . . In my two hands I grip life and death; life for us—death for the enemy. My guns are as much a part of me as my arms and legs. At my touch, they will blast the enemy out of the sky! . . . My guns and I are ready for any foe."

ONE OF THE DEADLIEST of the fighting men produced in World War II is the naval air crewman whose creed we quote. Battle to him is a blazing, personal, man-to-man business in which he slugs it out with an enemy, in mid-air, to bring his plane, his pilot, his fellow crewmen, and himself safely home.

Navy air gunners are not mathematical wizards applying complicated formulae to numerical calculations to achieve marksmanship. They are killers! They aren't working out problems when they swing into action. They're knocking down enemy planes by means of skilled reactions to given situations; reactions that have become habitual before they see the enemy.

Navy air gunners do learn about range, deflection, yaw, and drop, of course; but they win their wings by their ability to chalk up hits on targets moving at any speed, at any angle. The answer in the back of the book, for them, is a Jap in the drink; and Navy gunnery schools teach them to get that answer.

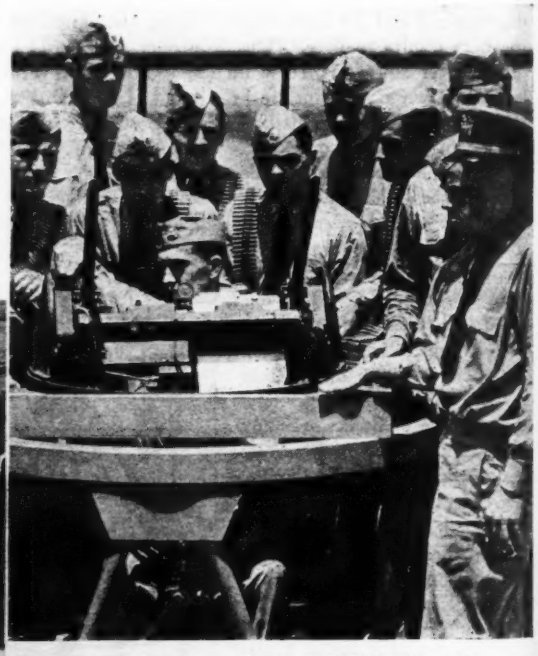
Gunnery is the primary function of air crewmen. However, they are also skilled technicians who have earned their ratings as Aviation Machinist's Mates, Ordnance Men, or Radiomen, and who have volunteered while in training for flying duty. Because all crewmen aboard Navy planes must be qualified gunners, these volunteers, after graduation as technicians, spend five weeks at one of the Navy's eleven gunnery training schools.

Synthetic training devices bridge the wide gap between theoretical and practical gunnery. Most widely acclaimed of these is what the Navy calls its 3A2 trainer; a device by which the student, seated in a darkened room, shoots electric rays at a plane diving at him or flitting past him on a movie screen. He fights these "battles" to the accompaniment of sound effects simulating the roar of his own plane, the chatter of guns, and all the ugly symphony of actual combat. Sound and sight combine to make a scene so real that many gunners say, after an actual "shoot-down," "He looked just like one I saw in the 3A2! It was a cinch!"

The 3A2 trainer teaches the student to "lead" a target. Hunters know the necessity of shooting "where the target ain't," so that bullet and target reach a given spot at the same time. In aerial gunnery, "leading" is called "deflection shooting." It is complicated by the forward speed of the gunner's own plane, as well as by the speed of the attacking plane. In fact, it is possible for an attacking plane to approach at such an angle that its forward motion is less than that of the plane from which the gunner shoots—so that the gunner may have to aim *behind* the target to hit. In the trainer, a bull's-eye on the screen teaches the gunner where to aim to lead various types of planes at various angles of attack. He aims at the bull's-eye, not at the plane.

Training in the conservation of ammunition, which may be a matter of life or death in combat, begins right here in the 3A2 trainer. A bell warns the tyro when he shoots before the target is within range. Another synthetic training device trains him to determine at a glance a target's distance from the gun.

The climax of the training program is the machine gun range. The student finds out here how it really feels to fire the bucking, barking, BAM—B for Browning, A for aircraft, M for machine gun. Firing at



Taught by battle-wise marksmen, a fledgling Navy air gunner learns (left) to lean back in the belt, chin the gun, guide short bursts by body swing. Above, he gets turret experience in one of the gunnery school's many synthetic training aids.

Skeet shooting is a primary step in the art of wing shooting

fixed targets at close ranges, he learns how to "thumb" the triggers for the short, effective bursts that conserve ammunition and barrels. He experiences "barrel whip," learns to boresight for range, finds out how to lubricate, clean and adjust his gun. He sweats over malfunctions —stoppages purposely arranged for his benefit. He finds out how to judge the probable cause of such stoppages by noting the position at which moving parts stop. Having learned all this, plus how to load belts, how to test ammunition and spot defects such as low or high primers, thin or thick rims, short rounds, et cetera, he thinks he's a gunner!

That's when he moves up to the "fifties"!

He learns now that what he thought was a man's-size gun was just a beginning! The .50, he discovers, is a rough, tough, out-spoken ruffian that makes friends slowly! Gunnery principles already learned help him, however, and before many days he and the bigger gun work like a team and swear by each other.

Just when the crewman again begins to think he's quite a gunner, the moving targets come along. They may take varying forms but usually they are large cloth rectangles attached to railway motorcars that zoom around curving tracks. Bullets for each gun are dipped in different colored paint which tints the target as it goes through, thus recording the accuracy of each gunner with unfeeling thoroughness. There's no bluffing in this course.

As the gunner masters each phase of his gunnery training he is moved on down the firing line. At one point real airplanes, without wings but otherwise intact, with motors roaring, serve as firing stations. Here the gunner learns to swing his guns easily and to riddle a moving target without letting a pulling, tugging slipstream spoil his aim. At another station he fires past synthetic tail surfaces at moving targets, learning to shoot without cutting the tail off his own plane.

He's beginning to feel right at home with that pounding, roaring gun—when suddenly all is changed again. He finds himself firing once more at fixed targets, but from a power turret. Here he learns to utilize the mechanical aids which absorb the recoil and fight the slipstream for him; which enable him to swing his guns up, down, or sideways with the slightest touch.

Finally, wearing a flying suit, a life vest, a parachute, an oxygen mask, and an aviator's helmet, goggles, and phones, just as he will do later in actual flight, the aircrewman rips moving targets that whiz past from a power turret mounted on a moving truck. He scores on moving targets from a moving platform. When that is done, he's had about all the training he can get on the ground. He's ready then for finishing-school: for operational training.

The aircrewman gets his first aerial experience in operational training. He is assigned to a training squad and becomes a member of the crew of a specific type of aircraft. It may be a majestic PBY patrol plane, a trim SBD dive bomber, or a smashing TBF torpedo bomer. Whatever it is, it carries him into the air while he gets his training. There he polishes both his gunnery and his technical ability. He gets advanced study in his rating, familiarizes himself with the assignments of all other members of the air crew. He absorbs a working knowledge of all communications methods, regardless of rating. He studies bombs, fuses and torpedoes, according to squadron requirements. He learns to handle oxygen equipment and other flight and emergency gear. He gets "air to air" gunnery by firing at towed targets from the air.

He learns to hit; and, for flight duty while learning, he knocks down 50 per cent more basic pay, which, in itself, is nice shooting!

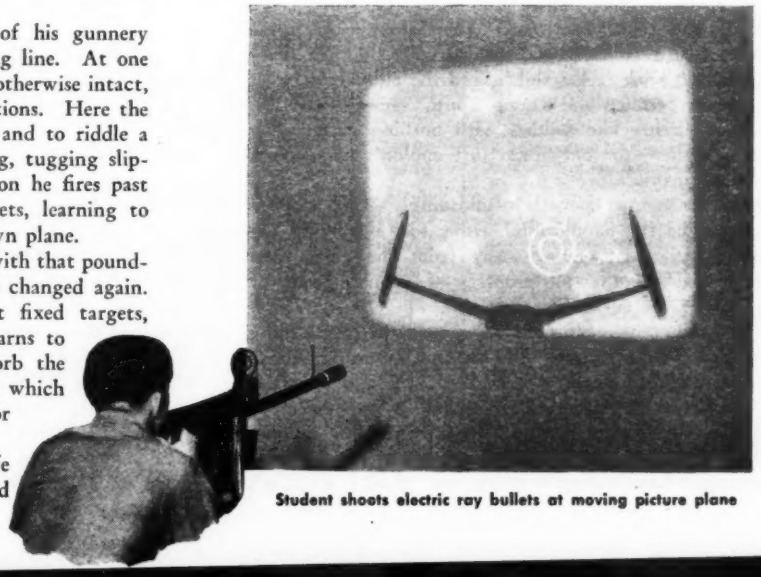
After eight more weeks, jam-packed with shooting, he receives his silver gunner's wings (if he qualifies) and he's ready to join the fleet as a deadly, accurate, combat marksman, as well as a thoroughly qualified aircraft technician.

This program, it is evident, conceals no secret marksmanship magic, no hocus pocus, no presto chango. Mathematical computations for all probable situations are all completed before training starts. The gunners simply learn the final answers so thoroughly that they instinctively know how, when, and where to fire in almost any situation. The secret of naval air gunnery training, if any, lies in the conception of accurate marksmanship as an automatic reaction, achieved by practice.

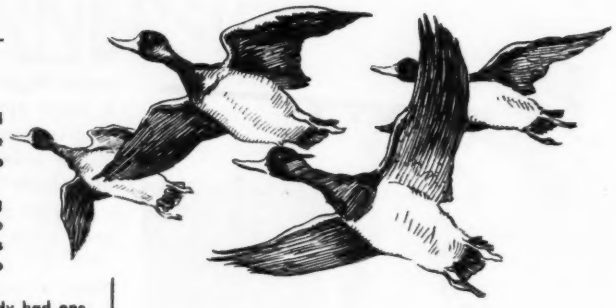
The tremendous overall effectiveness of naval aviation in combat already has been widely acclaimed. The increasing reluctance of enemy flyers to trade blows aloft is convincing proof that the acclaim is merited. Many factors must share this credit. Air speeds, maneuverability, pilot training, armor, armament, and intelligence are only some of the phases which must be considered. But in the last analysis, gunnery is the one essential without which all else would be useless.

As seasoned air crewmen put it, "There are no bad gunners; only good gunners and dead gunners!" The Navy trains its air crewmen to be good gunners.

Official U.S. Navy photographs



Student shoots electric ray bullets at moving picture plane



Homespun

THE MEMORIES THAT HUNTERS KNOW

"Well, the pheasant season has just closed. It has been one I can look back on with satisfaction. Not from the basis of the number of birds killed—though I did get enough to savour up the kitchen several times. But there were other things . . .

"This was the first real season with the ring-necks for my young setter bitch. She is still over-eager, as any youngster is; but she is learning fast. She made a lot of grand points and, since she is a beautiful dog anyway, some of those points were pictures to remember a long time. One in particular—

"She had nailed a hen tight in a little clump of sedge. I already had one rooster in the hunting coat, so I was just playing around. I ambled up and stood there, admiring her. That point was staunch as iron. And what a picture she made as she poised there in the gold and russet sedge! with the clear crisp, autumn sunshine picking out her graceful lines and shining on her markings!

"That whole day was one to remember! In the morning, the tide was right in the duck marsh and I went out, put out the decoys, and poled the skiff into a tule blind. Things were slow for a time. I had the marsh to myself. But I didn't mind. I just sat there and smoked and enjoyed myself.

"Along toward the peak of the tide, it happened. A whole flight of shovellers and green-winged teal, fresh from the north, poured in. And I mean, poured!

"My first hint of their arrival was the thin, faraway whistle of wings. Louder and louder it grew until the whole world seemed to vibrate with it. Then here they came, right down out of the blue from some stupendous height; flock after flock of them; hundreds upon hundreds! In no time at all the whole marsh, which until then had been empty, was alive with them. Everywhere I looked there were ducks!

"For a time I was too dumfounded even to think of shooting. They were in to the decoys and out again, with more coming in to replace them. They were sizzling over the tule tops like swarms of bees!

"Well, finally I came to life. I opened the shell box and got the little sixteen double into action. Several times there were so many ducks over me and over the decoys that I didn't shoot because I was unable to choose a target! I was stampeded! But in the end I settled down and bowled over a limit, and in less time than ever before in my life. When I picked up and went out, they were still there, with more coming in to join them. It was one of those things; an experience I may never have again.

"And then, in the afternoon, there were pheasants, and the unforgettable picture of that final, beautiful point as my Lassie dog held that hen in the sedge proud and pretty!

"Yeah, that was a day!"

—From a letter from Bill McCandlass.

BACK IN THE OLD DAYS, we used to have real turkey shoots in these parts. The word went out and the boys would gather. You bought your ticket and when your turn came you went up and took your shot. Then along came some belly-shooters with their .30-'06's, their target 52's, their Hornets, all dolled up with target sights, and the old-timers, with their ancient '94 carbines and "Long Toms," shooting .30-30, .32 Special, and other like fodder, with nothing better than their hunting sights—the old-timers just couldn't compete in that sort of company.

What has the above to do with handloading? Well, it seems to me that maybe the handloading game, too, is getting too complicated; that it is moving away from the great mass of shooters to become the sole property of a small group of specialists, just as the turkey shooting did.

Understand, I haven't a single thing against the handloading specialist. More power to him. He has and is bringing about improvements and new loads which are a help and advancement to the shooting game; and if tinkering up new crops of wildcats and ultra-ultra hurry-up loads is a hobby he likes to ride, that's swell. But it strikes me that the old joy of simple, homespun handloading is dying out. And it shouldn't be allowed to die out. It's too valuable to too many shooters. Here's a case to show what I mean:

A friend of mine had been north after mule deer. He came back without meat or horns. He was blue and down at the mouth. I asked, "How come?" He said, "I had good shooting at a pip of a buck. I missed him clean, four shots. I just can't figure it."

I said something about sights. He shook his head. Nothing wrong there. Back at camp he'd put up a target and tried a couple of shots, from rest. Sights and gun were all right. It was just him. So I asked him how much practicing he did during the off season. He said, "How much do you think, at ten cents a shot? I'm no millionaire!"

He had something there. Few of the great mass of shooters can afford to do much practicing at ten cents a shot. This friend is an ordinary working stiff with a wife and kids. I mentioned handloading as a means of more economical practice. He admitted he'd thought of that and was interested enough to look through the shooting magazines for some dope along that line, but it all looked and sounded complicated and expensive. Where, he wanted to know, was he going to rake up enough dough to buy a fancy set of powder scales, a dozen different breeds of powder, forty-'leven different weights and shapes of bullets, etc., etc.?

Get it? I've run across a lot of the boys who have the same idea about handloading: that you have to have a whole workshop full of tools, powder, bullets, and what not, or it's no go. It is an idea which should be squelched for the all-around good of the shooting fraternity!

This friend of mine shoots a Krag. I knew the gun. He'd found a peach of a barrel and he kept it in apple-pie order. He'd tinkered the gun over into a sporter and done a mighty good job on it. I told him to come on out to the cabin and I'd show him something. When he showed up, we went out to the workshop and I began digging around in a lot of gear I had there. Once upon a time, I shot a Krag a lot, and I remembered about some tools and things. I finally got everything rounded up.

There was an old Modern-Bond Model B tong-type reloading tool with all the fixin's. There was a Bond mould that would throw two 120-grain bullets at a cast. There was a powder cup I'd made out of a .38 Special shell, having checked its capacity on a local druggist's prescription scale. There was

most of a can of No. 80 powder, and a box of Frankfort Arsenal primers. I warned him about the primers. I told him to give the gun a good hot-water scrubbing when he got through shooting, and to get some of the noncorrosive primers as soon as possible. I didn't have any bullet lubricant on hand, so I dug up an old copy of the Ideal Handbook and told him he could get the right mixture formula out of that.

I gave him the whole layout. "She's yours," I said. "I've no more use for the tools, and I have some more powder and primers for my own tinkering when the mood hits me to mix up a little light fodder for the .270. Use a little common

Handloading

By BILL McCANDLASS

sense and care, and you've got a right smart amount of shootin' fun ahead of you. That load won't group in any two inches at a hundred yards, and it won't knock an elephant down, but it's interesting medicine on digger squirrels and jack rabbits up to sixty or seventy yards, and you can pick blue jays out of trees with it just as slick as you could with a .22 plinking gun. It won't bust you up in business to shoot it, and it will keep you acquainted with your gun. Save your empties and enjoy yourself."

Sa-ay! He went away from there tickled as a kid at Christmas. He was going to do a spell of homespun handloading, have a lot of fun doing it, and get better acquainted with his gun than he'd ever been before in his life.

I remember my own first contact with handloading. I was a pretty small kid then and I used to sit, bug-eyed and fascinated, watching my brother handload for his .32-40 Marlin. It was in the Mother Lode mining country and my brother worked in a railroad foundry and machine shop. During his lunch hour he'd brew up a pot of bullet metal on the forge and cast a flock of 165-grain beauties. Evenings, at home, he'd put the loads together. It was the standard full-power, black-powder, .32-40 load. He used to buy his powder by the canister.

Come the week-end, he'd strike out with anywhere from fifty to one hundred and fifty handloads in his hunting coat. There was plenty of open country, plenty of digger squirrels and jack rabbits. Up to maybe 150 yards there never was a load that had much edge on the .32-40 for accuracy. And when deer season rolled around, a buck was in an awful tough spot if he got anywhere within range! As I remember it, there was nothing flossy about my brother's reloading outfit; just an Ideal tool and mould, a powder cup which came with the outfit, and some sticks of bullet lubricant.

Later, a kid friend of mine possessed one of those fabulous uncles who had not only money, but an understanding of the longings of a kid. So, one day, a single-barreled shotgun appeared, along with a box of twenty-five brass shells, some powder, shot, wads, and a simple set of tools which even we kids could savvy. Man, what glorious days!

Black powder, of course, which thumped the shoulder in recoil most grandly, which let off with a magnificent bang and a belching cloud of smoke that was pure incense to our eager young nostrils. We got game with that combination, too. More than one covey of quail was roundly ground-swiped. Our sense of sportsmanship, by latter day standards, might have been open to question in spots, but what prouder moment for a kid than to lay a string of quail or a brace of brush rabbits on the kitchen table for the admiration and gustatory joy of his elders?

Good old homespun handloading! What shooting joy it brought to lonely farm kids who could never have enjoyed it otherwise! Times have changed; but not to the extent that we should let something as vital and as fascinating and as instructive as the simple fundamentals of handloading get away from us. Along with all the steadily accumulating data on highly specialized loads, we need more emphasis on simple, useful loads of interest and value to the average shooter who has one gun and wants to make it serve as many purposes as possible without sinking wads of dough into flossy and entirely superfluous reloading equipment.

I believe the time is ripe for a reawakening to the virtues and value of the simpler forms of handloading, now that all forms of ready-made ammunition are scarce and getting steadily scarcer. I know lots of shooters now interested in handloading who had never even considered it before. But they should be shown that handloading is a game any intelligent shooter can enjoy without going into deep, scientific trances, and without mortgaging the family home for an outfit.

Personally, I'd like to see that great series of articles and tables by Mattern on handloading reprinted in the RIFLEMAN. Like the old, early copies of the Ideal Handbook, Mattern's data had a simple earthy fascination and value which no later development can touch.

To me, the increase of interest in refurbishing the old muzzle-loader and coaxing it to shoot again, is a pertinent expression of nostalgic yearning on the part of many shooters to get back to the days when handloading was the useful property and pleasure of every shooter and not the scientific mania of a comparatively minor handful of specialists and experimenters.

I shoot modern guns and modern loads in their proper places, but I was never one to believe that a load had to shoot 'steen thousand feet a second to be of any use. There is plenty of enjoyable and useful shooting in any gun at speeds and ranges below its maximum. You may own a car that will do ninety miles an hour, but who wants to drive ninety miles an hour all the time?

So it is with shooting. That fine rifle of yours can handle many loads besides its full one. You can cut it down to cheap and useful subloads and be amazed what it will do with them. You'll find you can soften its roar, lessen its dynamic punch, and still get amazingly accurate results. You'll find you have a weapon you can use the year around and get to know as you never knew it before. And you will achieve a background of fundamental knowledge and an understanding of shooting which will go far toward making you a rifleman, instead of merely a shooter.

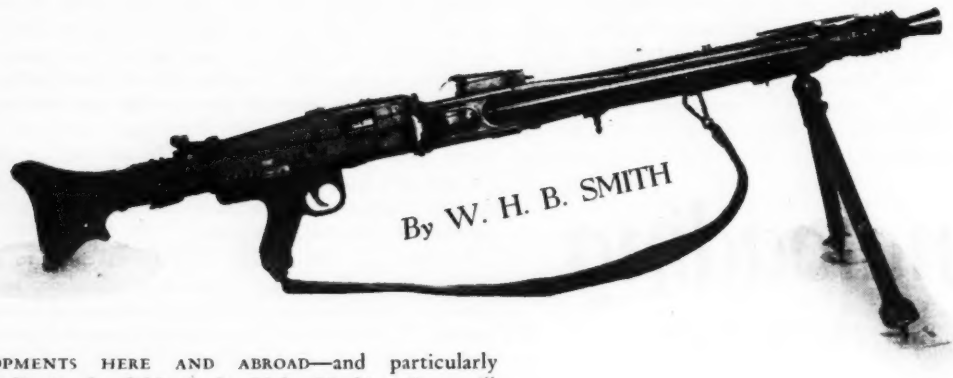
GENERAL RECKORD DECORATED

Major-General M. A. Reckord, NRA Executive Vice-President, now Provost Marshal of the European Theater of Operations, has been awarded the Oak Leaf Cluster to add to his Distinguished Service Medal.

The citation reads: "Because of many industrial facilities located within the Third Service Command, problems of command were varied and critical. By his vision and leadership, General Reckord solved these problems with conspicuous success, thereby contributing materially to the prosecution of the war."

As Commanding Officer of the 115th Infanty in World War I, General Reckord received the DSM for "high leadership and great tactical ability" in successful operations north of Verdun.

What's In Store For Post-war Riflemen?



By W. H. B. SMITH

DEVELOPMENTS HERE AND ABROAD—and particularly abroad!—in the field of the Light Machine Gun will profoundly affect the future of the rifle and of rifle shooting. Our own Johnson, the German 41 Gewehr and FG 42, and, perhaps above all, the amazingly simple Russian Degtyarov, clearly point the way to small arms developments for the future capable of providing, after the war, rifles of almost unbelievable simplicity and ruggedness at a fraction of present-day cost.

The new German Fallschermjaeger Gewehr 42—their new paratroopers' rifle—points one way to real development. For accurate rifle shooting, of course, an automatic weapon must fire from a closed bolt; that is, only the striker or a hammer-and-striker section should move when the trigger is pulled. On the other hand, if a weapon is to be used for burst fire as a full automatic, it is essential that the bolt stay open between trigger pulls to help in cooling.

Melvin Johnson pioneered this very important development in this country, and the Germans have incorporated it in the new FG 42. This feature has the added military advantage of keeping the enemy from knowing of the presence of a full automatic weapon until the user wishes him to know about it.

The gas action of this nine and three-quarters-pounds weapon is based on the principle of the American Lewis. A piston, blown back by gas, taken off Winchester-fashion from a port only a short distance from the firing chamber, revolves a bolt-head to unlock the locking lugs, then carries the bolt back to extract the empty case.

This unique weapon is provided with a butt and a folding bipod stamped out of 20-gauge steel. It is only forty-two inches overall, has a nineteen-inch barrel chambered for the standard 7.92 mm. German service cartridges, and uses a twenty-shot box magazine feeding, Johnson style, from the left side of the receiver. It has a compensator, folding post sights, a bayonet mounting, and a simple change-lever which instantly switches from semiauto closed bolt to full-auto open bolt.

Note that the Jerrys haven't hesitated to pick up every proved principle in rifle design and tag it onto their straight-line LMG design!

Next, consider the German equivalents of our Garand: their Gewehr 41, 41W, and 41M. Early models of these weapons used a tapped barrel to draw off gas, but these were supplanted by a simple and effective gas trap screwed over the muzzle. The 41M uses a turning bolt-head lock and is a heavy and clumsy weapon. But the 41 and 41W, once the "bugs" were out of them, could be very effective rifles, loading, as they do, ten cartridges from standard five-shot Mauser clips. The potentially outstanding feature of these rifles is the locking system copied from the Russian Degtyarov Light Machine Gun, of which more later.

The new German MG 42 utilizes a lock based on this same Degtyarov idea, but adapts it to a recoil-operated system. This gun, incidentally, features the easiest and quickest barrel removal system ever incorporated into a machine weapon. When the bolt is cocked, pushing sharply on a protruding gate on the right side of the receiver levers the rear of the barrel out of its seat and permits it to be whipped out of the gun. Three spare barrels are provided with each gun, thus enabling the crew to sustain fire as effectively with this twenty-five-pound gun as could be done with a water- or heavy air-cooled gun weighing two to four times as much.

Weapons such as the 1932 Mauser and Astra Auto pistols, and the French 1936 MAS rifle, are fitted with quickly removable magazine floor plates. Thus, these weapons may be loaded with a clip through the top, or oversize magazines already loaded may be inserted from the bottom. Here we have a feature which, in the future, can provide wide flexibility of cartridge capacity in our rifles.

But the one development which may mean most to the rifleman of the future is the effective use and development of the Degtyarov lock. This is a production of such sheer simplicity that the genius of its design actually escapes you. But, first, let's take a rifleman's glance at the weapon itself!

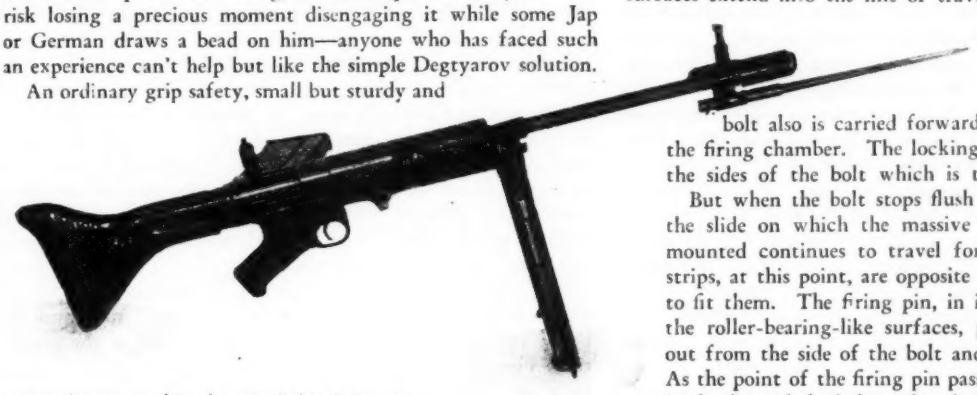
In appearance, it resembles a hammerless pump shotgun with an oversized pie plate stuck on top just ahead of the rear sight. It weighs only eighteen and one-half-pounds, measures some fifty inches overall with its twenty-four-inch barrel and bell-mouthed flash hider, carries forty-seven Russian 7.62 mm. cartridges in a single layer in its pan, and is probably the simplest automatic weapon ever made.

Thoroughly tested in the Spanish Civil War, this weapon is the standard LMG of the Russian Army; and if you study Russian newsreels and note the huge numbers employed, you wonder if maybe Hanson Baldwin, writing in the *New York Times*, hasn't got something on the ball when he suggests that we pay more attention to what's being used on the vast Russian front.

Instead of the customary gas cylinder, this gun takes gas off into a cup. This means fewer parts and greater ease of cleaning. The barrel is easily removed by pushing in a barrel stud, giving the barrel a quarter twist, then whipping it out of the weapon. (Here we have the groundwork for rifles of the future convertible to different calibers!)

And the safety! Anyone who has lost a shot at game while he jacked a cartridge into a rifle barrel or monkeyed around turning levers or pushing safety buttons—and, more particularly, soldiers who had to decide whether to move ahead into uncertain territory with chamber loaded and safety off at the risk of premature firing, or to keep the safety on and risk losing a precious moment disengaging it while some Jap or German draws a bead on him—anyone who has faced such an experience can't help but like the simple Degtyarov solution.

An ordinary grip safety, small but sturdy and



secure, is mounted in the grip behind the trigger guard. The gun can be carried at full cock with complete confidence and safety! But, when the hand tightens to press the trigger, the lever goes in, the safety goes off automatically, and the gun starts firing. No conscious effort, no separate action is needed.

But all this simplicity and genius of design reaches its peak in the lock. Here are no turning or revolving bolts or bolt heads; no rising or falling blocks; no complicated springs or wedges; no involved locking or firing devices! Picture a block of steel shaped somewhat like a conventional match box. A firing pin hole is drilled through the long axis of this block. At the front end, the hole is just large enough to let the tip of the firing pin protrude to strike the primer of the cartridge in the firing chamber. Further back in the block, the hole widens to accommodate a firing pin shaped somewhat like a huge horseshoe nail with a firing-pin point. On each side of the bolt, slots are cut which lead directly into the firing-pin hole. Into these slots are fitted loose locking pieces which fit flush with the *outside* of the bolt when the weapon is cocked. (At this position the bolt is fully to the rear and mounted on top of a slide which is attached to the piston.) These strips may be compared to the two striking surfaces on the sides of a match box. When the bolt is fully back, these two strips are flush with the bolt *on the outside*—but on the inside, rounded roller-bearing-like surfaces extend into the line of travel of the firing pin.

When the trigger is pressed and the recoil spring pulls the piston and slide forward, the bolt also is carried forward, driving a cartridge into the firing chamber. The locking strips are still flush with the sides of the bolt which is travelling in the receiver.

But when the bolt stops flush with the firing chamber, the slide on which the massive wedge-type firing pin is mounted continues to travel forward. The bolt-locking strips, at this point, are opposite cuts in the receiver made to fit them. The firing pin, in its forward travel, strikes the roller-bearing-like surfaces, pushes the locking strips out from the side of the bolt and into these receiver cuts. As the point of the firing pin passes through the small hole in the face of the bolt to fire the cartridge, the heavy body of the firing pin is acting as a wedge inside the bolt to hold the bolt strips securely locked to the receiver.

When the bullet passes over the gas port and pushes the piston back, the breech pressure drops to safe limits before the firing pin is withdrawn enough to permit the locking strips to be cammed back into their place in the bolt so the bolt can move freely to the rear to extract and eject the empty case!

By replacing the locking strips with locking rollers, the Germans have adapted this general type of lock to recoil operation—and so are able to produce a machine gun, 98 per cent of which is cheap stampings!

Will American manufacturers utilize these and other tested developments to give us better and cheaper weapons in the future? Certainly, if they don't, foreign designers will!

Watch Charm

By H. E. WHAY

"READY, BILL?" "YEP." A bright new silver dollar rose gracefully into the Connecticut sunlight, turned and hung in the air. With a smooth, unhurried movement, the man with the long white hair and the ten-gallon hat "upped" a .44-40 Winchester. Before the spectators had begun to refill their lungs, there was a sharp "pop" and the peso jerked and spun. "Crack." The dollar jerked again and fell to the ground near the grandstand. Before the adults had gotten their wits together, a small boy squirmed between their collective legs and froze onto the dollar with both hands. His bare feet were well co-ordinated and carried him in a straight line, home to his mother. In so simple a way were tiresome complications as to "treasure trove" avoided.

The man with the hair was Buffalo Bill; the boy Isaac Isaacs, later Sub-chief in the New Haven Fire Department. Call him "Ike" and you've got it right either way. Ike is still with us. He is sympathetic with my aspirations as a collector, but terribly "sot." He let me handle the coin, of course. Cody hit it twice. And there can be no doubt from the lead marks plowed into the surface that he hit it with bullets. It is still a good dollar of the vintage of 1884.

Save your stamps and stationery, fellows. Ike won't part with that there relic. I tried.

Simplified Small Arms Ballistics

FOR THE SPORTSMAN AND SOLDIER

By the OLD COACH

PART VIII—THE BULLET'S FLIGHT

(Continued from March issue)

IT HAS LONG BEEN realized that a body falling through air eventually reaches a "terminal velocity" which is its maximum velocity of fall no matter how long the period of time the body is falling. This "terminal velocity" of course results from the combined factors of air compression and various types of "drag." The terminal velocity will vary with the density of the falling body and with the density of the air. Experiments have *seemed* to indicate that both the 150-grain flat-base and 172-grain boat-tailed bullets which have been used as U. S. service ammunition reach a terminal velocity of fall of perhaps 900-1200 f.s. The matter has not been considered to be of enough importance to warrant any extensive or scientific tests but it can be positively stated that modern rifle bullets do *not* return to earth with a velocity even approximating the velocity with which they are fired aloft.

Nowadays, everyone appreciates how much more "stubborn" air becomes as we try to push through it at higher and higher speeds. We know that a 10 per cent increase in speed *may* require a 100 per cent increase in horsepower and fuel consumption. There is one highly important difference between a motor-driven vehicle and a bullet. When we need more power to keep our plane or automobile pushing ahead at high speed we can call up the power by opening the throttle. When a *bullet* leaves the muzzle of a gun it can call on no further source of power. All the motive power of a bullet in flight is the kinetic energy which is stored up in the bullet itself; energy in the form of momentum. It therefore becomes vitally important to do everything in our power to help that bullet slip through the resisting air with a minimum expenditure of its precious stored-up energy. Lost energy means reduced speed. Reduced speed means longer time of flight—and remember that the amount of drop and of wind drift is proportional to the *time of flight!*

Aircraft engineers have been able, with the help of wind-tunnels to carefully study the air disturbances set up when different forms are moved through the air at varying speeds. Because of the very much higher speeds with which ballisticians work it has been much more difficult to plan scientifically the most efficient bullet forms. The original "streamlined" or "boat-tailed" bullets were designed largely by the "cut and try" system. Modern methods of photographing air waves and bullets in flight have made it possible in recent years for ballistic engineers to approach the problem of efficient bullet design with a better background of information.

Practical experience indicated to riflemen years ago that "streamlining" a low velocity bullet did not improve its performance and in most cases decreased its accuracy. Modern photographic methods have seemed to indicate that the critical point below which streamlining is of no help to the bullet's flight is the point represented by the velocity of sound. The velocity of sound is constant throughout its audible range. The speed of sound waves is approximately 1090 f.s. at 0° Centigrade (32° on our conventional Fahrenheit scale). The velocity of sound increases with a rise in temperature and decreases as the temperature declines. The variation is about two f.s. for each degree of temperature Centigrade. Velocities lower than the velocity of sound waves are called "subsonic" velocities while higher velocities are called "supersonic." At subsonic velocities round-nosed, flat-base bullets are just as satisfactory and often superior to pointed or boat-tailed projectiles. As aircraft speeds have increased aircraft engineers have also discovered that a new set of vibrational stresses seem to be set up in the plane structures as the speed of the plane exceeds the speed of the sound waves. Neither aircraft nor ballistic engineers have quite satisfied themselves as to the "how and why" of these phenomena.

The flight of a bullet through the air sets up three sets of disturbances in the air which work constantly to retard the bullet and to exhaust the kinetic energy stored in the projectile. First, there is the "bow wave" or area of compressed air built up ahead of the nose of the bullet. Most people nowadays have thrust a hand out of the window of a car moving at a speed of 45 to 60 miles an hour. Such an experience is all that is needed to realize how amazingly "solid" the air becomes when we try to push through it rapidly. When you consider that a "slow" pistol bullet travels at ten times the speed of the 60 m.p.h. auto it is easy to imagine the enormous compression of the bow wave built up in front of a bullet.

The second force dragging at the bullet is "skin friction" or "parasitic drag." The air through which the bullet drives its way is a gas. Gas molecules have the capability of sliding freely over one another and of rapidly adjusting themselves to the contours of any surface with which they come in contact. Air pressure is constant in all directions so that the air is pressed in against the bullet from all sides at a sea level pressure of 14.7 pounds per square inch. Even though the gas molecules do slide easily over one another so that those adhering to the bullet jacket serve as a "lubricant" to reduce the drag of the other molecules which are pressing against the skin of the bullet with 14.7 pounds pressure it is readily seen that skin friction cannot be ignored as a retarding influence.

The third type of air disturbance is the "hole in the air" which forms at the base of the fast-moving bullet. Gases in motion do not change direction as quickly as might be expected. The air flowing around the sides of the bullet does not instantly close in behind the base. A partial vacuum at the base of the bullet results. This means that the base of the bullet lacks any support from the air so that the *effective* pressure of the compressed air wave against the nose is increased by 14.7 pounds per square inch at sea level. (If the air was closed in behind the *base* of the bullet at sea level it would be *pressing forward* with a pressure of 14.7 lbs. per sq. in.) The idea that the vacuum at the base of the bullet "holds the bullet back" is not correct but the *practical effect* is the same.

The purpose of "stream-lining" is to provide a design that will (a) part the air with the least possible disturbance, reducing

the "bow wave" of compressed air to a minimum, (b) eliminate unnecessary protrusions and surface irregularities along the side of the bullet so as to reduce skin friction to the minimum, and (c) cause the air stream to flow in behind the bullet so as to eliminate the partial vacuum at the base of the projectile. Obviously the stream-lining job to be efficient must be designed to fit each particular bullet and velocity. Invariably a poorly stream-lined bullet will give much worse results than the standard flat-based projectile it was supposed to improve upon. The greatest benefit of stream-lining is in the direction of increased range and better accuracy at long ranges. Boat-tailed bullets require longer to "settle down" in flight than do flat-base bullets. For short range work flat base bullets are

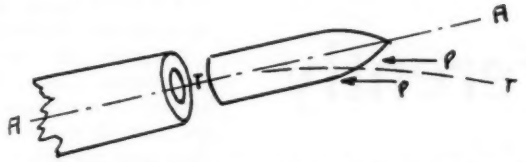


Figure 1: A-A = Line of departure and original axis of projectile. T-T = Line of trajectory. P = Air pressure against under side of bullet's nose.

nearly always to be preferred. No *completely* satisfactory explanation of this phenomenon has ever been advanced but the condition *does* exist.

From the foregoing discussion it becomes evident that two of the most important factors in determining the efficiency of a bullet are: (1) The speed with which it leaves the gun, i.e. its "muzzle velocity," and (2) Its ability to *retain* that velocity as it bores through the air.

The *muzzle* velocity is determined by factors involved in the study of *interior* ballistics —the quality and quantity of powder, volume of case, bullet weight, barrel length, etc.

The ability to *retain* velocity depends on factors which are discussed under the heading of *exterior* ballistics; i.e. kinetic energy, density, form factor, and ballistic co-efficient.

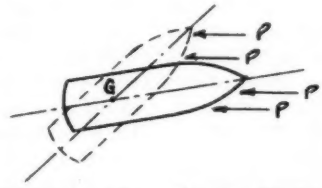


Figure 2: G = Center of gravity. If bullet did not have gyroscopic stability, pressure of air would tilt it further and further upward, nose revolving around "G."

Kinetic energy is the energy of motion. Every object that is in motion possesses kinetic energy. It is common knowledge that when two automobiles travel *at the same rate of speed* the *heavier* car will knock over a more rugged obstruction than will the *lighter* car. When two automobiles are of the *same weight* the car traveling sixty miles an hour will create more havoc than the car traveling forty miles an hour. These are every-day examples of the fact that kinetic energy (K. E.) includes factors of both velocity and weight. The actual formula for the determination of kinetic energy is "mass times the square of the velocity divided by 2." ($K\,E = \frac{m\,v^2}{2}$). The term "mass" as applied to problems in physics means weight (in pounds) divided by the acceleration of gravity (32.16 or, roughly, 32).

It is important always to remember the fact that "weight" and "mass" are not the same thing. It is also important to note that (a) kinetic energy is *directly proportional to the mass* of the bullet or other moving object; i.e. a 200-grain bullet will hit *twice* as hard as a 100-grain bullet traveling at the same speed, BUT (b) kinetic energy *increases as the square of the velocity;* i.e. *doubling* the *velocity* of a bullet increases its striking force *four* times; *tripling* the velocity results in *nine* times the striking force. A 100-grain bullet traveling at 2,000 feet per second will hit *four times* as hard as a bullet of the same weight traveling at 1,000 feet per second. A bullet traveling 3,000 feet per second will have nine times the striking energy of a bullet the same weight at 1,000 feet per second.

Sectional density is a term used by ballisticians to indicate the weight of a bullet as compared with its diameter. The air pressure which retards the bullet by building up ahead of the nose is obviously greater in the case of a bullet of large diameter than it is in the case of a bullet of smaller diameter. At the same time the kinetic energy of a heavy bullet is greater than the energy of a lighter bullet traveling at the same speed. Therefore, the heavier the bullet in proportion to its diameter, the more efficient it will be in boring through the air. Hence "sectional density" exercises an important influence on the ability of the bullet to *retain* its velocity as it travels toward the target. The sectional density of a bullet is determined by dividing the weight (*in pounds*) by the *square* of the diameter (in inches). Expressed as a ballistic formula—

$$\text{Sectional Density} = \frac{\text{w (weight in pounds)}}{\text{d}^2 \text{ (square of diameter in inches)}}$$

The "Form Factor" is a value arrived at by experimental firings to determine the comparative ability of projectiles of different shapes to bore their way through the air with minimum "retardation" or loss of velocity.

The Ballistic Coefficient is an overall measure of the power of the bullet to overcome air resistance and maintain its flight. The ballistic coefficient includes the form factor as well as the sectional density factor.

Both the "Form Factor" and "Ballistic Coefficient" are tricky things involving much test firing and a real knowledge of ballistic engineering. They are definitely *not* in the field of simplified ballistics and are merely mentioned here because the terms are so often encountered in ballistic discussions and articles. The average soldier and sportsman will have to accept whatever the ballistic engineer tells him about the "Form Factor" and Ballistic Coefficient of any projectile. All we need know is that these two factors relate to the comparative ability of bullets to maintain their forward velocity as they spin their way through the air.

Up to this point we have discussed—

(a) The factors that cause the bullet to fly through the air toward the target: i.e., kinetic energy aided by a good ballistic coefficient.

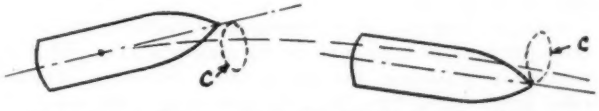


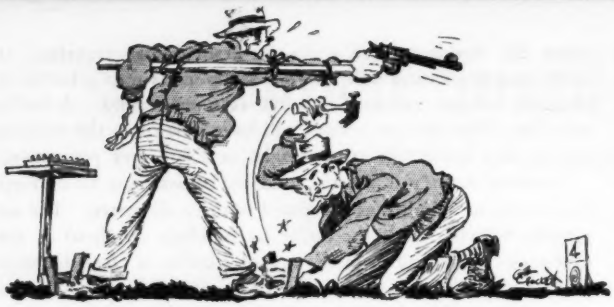
Figure 3: C = Clockwise motion of projectile's nose, resulting from gyroscopic effort to resist the up-ending action of air pressure.

(b) The factors that retard the bullet, exhausting its kinetic energy and causing it to eventually fall to earth: i.e., gravitation pull and air resistance.

We know that the flight of the bullet is a long curving flight from muzzle to target and we know why this is so.

At this point we encounter a common question. The barrel

(*Continued on page 29*)



Lee Echols, crack shot and free thinker, exposes the secret foibles of the great.

They All Do It Differently

By LIEUTENANT LEE E. ECHOLS, USN

A LONG TIME AGO, when I first started pistol shooting, the coaches and instructors would teach the new shooter a few rudiments of safety, and then get right down to business with him about stance! There was one ironclad rule in those days. A man simply had to stand at right angles to his target, hold his arm straight out to the side, twist his neck around to where he could see his sights, and do the best he could from then on. This was known as the Army Stance, and no one was presumptuous enough to question its merit.

About 1935, however, a Mr. Jacob Engbrecht of the Los Angeles Police Department, who had blasted out most of the national pistol records at that time, decided he could improve on the Army Stance. Jake faced the target about three-quarters around, with his feet set about eighteen inches apart, and tried that stance in a few matches on the West Coast. His scores skyrocketed and the pistol shooting gentry throughout the country forswore the Army Stance and took Engbrecht as their model. By 1937, this stance was accepted almost nationally as the correct shooting position, and instructors started every new shooter off à la Engbrecht, regardless of whether the novice had the Engbrecht physique or not.

I remember other things that were accepted as gospel when I started shooting. One was that, for Slow Fire, the gun must be held very loosely. Any attempt on the part of the new shooter to get a firm grip on his gun was quickly discouraged. A tight grip was for Timed and Rapid Fire. Slow Fire must always be shot with no more grip on the handle than in a Mexican handshake.

Another thing that used to bring wholehearted acquiescence from the handgun boys was the flat statement that plenty of time must be taken in shooting the Slow Fire stage. On the other hand, Rapid Fire should be shot thus: Take plenty of time with the first one; be sure it's good; then "cowboy" the next four shots in as fast as you can thumb the hammer.

They used to say that it took seven years or more to make a good pistol shooter—and no wonder! It took most of that time, however, for the shooter to unlearn all the absurdities drilled into him during his formative years.

For the past few years I have been doing something which, for the lack of a better term, I shall call Visual Research. I've been watching the top-ranking pistol shooters of the United States to find out whether or not they are uniform in stance, grip, et cetera. As a result of this research, I have arrived at a state bordering on hysteria. I'm all mixed up!

Al Hemming of the Detroit Police, one of the great pistol shooters of all time, aims with the wrong eye. Too, Al stands with his feet so close together he looks as though a brisk breeze would take him right over the target house!

"Moe" Wilson, the slow talking, deadly shooting Coast Guard boy who has been winning his share of pistol matches for many years, uses an exaggeration of the old Army Stance. He goes the Army one better! Standing at right angles to the target, he puts his right foot ahead of his left about six inches, so that when he pokes that gun at the target he looks like a man in a helluva hurry, shooting back over his shoulder!

Treasury's Al Meloche, and Marine Corps' Major Richards do not extend their gun arm all the way, but shoot with the elbow bent much like that of General Custer on the National Individual Trophy!

I have studied Mel Rogers, bulwark of the Treasury Team, until I can always tell how well he is shooting by his stance. The better Mel is doing, the wider spread his feet are. At Camp Perry in 1939, when he won the .22 caliber national title with a score of 296, Mel finished his last string of Rapid Fire with his nether extremities slapping the ground like a sack of bird shot!

I stood next to Maurice Lalonde, of the Detroit Police, at the Flamingo Open in 1940 at Coral Gables while he shot ten shots Slow Fire at fifty yards. He took deliberate aim with his first five, garnering a ragged nine, two eights, and two wide sevens. Maurice got a look on his face then and blasted in his next five shots as fast as he could cock and fire. . . . He had five tens you could cover with a dollar!

One of the most consistent good pistol shooters in this country is Norman Adair, of Yuma, Arizona. Norman has a peculiarity in his shooting which he has purposely cultivated and which he says has improved his scores many points. Instead of laying his thumb on the frame of the gun in the orthodox manner, Norman sticks his thumb straight out to the side like a hitchhiker leaving Cold Springs, Texas! Gloria Jacobs, miracle girl from California, does the same.

Major Rau, of the U. S. Infantry, humps up over his gun like a bird dog over quail; and Francis O'Conner, of Kansas City Police, leans back away from his until I have sometimes questioned the accepted law of gravity while watching him!

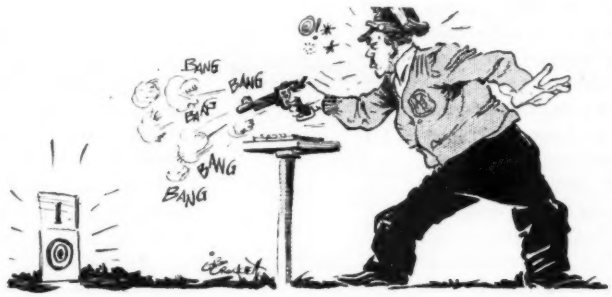
I have heard throughout my shooting days that a man who runs up to the firing line just before a match has about as much chance of winning that match as he would have of beating an early-footed filly on a quarter-mile straightaway. The thing to do is to get up on the firing line at least five minutes before the "Ready," so your ticker won't be going so fast that it will pump sevens and eights out of your gun in place of hub-cap tens. But during the National Mid-Winter Matches at Tampa, in 1941, "Smitty" Brown would take a few minutes off from managing the biggest pistol tournament in the United States and rustle himself up to the line just as the targets turned. He'd be, as they say down there, "pantin' up a breeze." Result? Smitty panted out scores good enough to win several big events.

What I am trying to get over is this: Basic instruction is okay. There's nothing wrong with the Engbrecht stance—except that it may need to be varied to suit the individual. Once you're past the utter novice stage, don't be afraid to vary the basic stuff to fit *your* need. None of the Tight Group Boys got there with the same methods. Learn the basic rudiments of squeeze, sight alignment, and breathing. And I mean, learn 'em! Then do some experimenting of your own. If you can shoot better with your feet spread apart like Mel Rogers, or with your heels together like Al Hemming, or with your elbow crooked like Custer's at the Battle of the Little Big Horn, do it that way! Find the easiest way for you, yourself, in person, to shoot. Then—practice! Practice, practice, practice! Dry fire until your shoulder aches. When you do shoot real shells, make 'em all count. Attend every match you can reach. And, remember—

The old stuff about going to a pistol match and "just shooting your average practice score" won't do the job any more! To win pistol matches these days you've got to shoot 'way over your head; shoot scores that amaze not only you but everyone else at the match!

And that, gentlemen, in the opinion of Old Maestro Lee Echols, is the secret of winning pistol matches. After you have learned the rudiments, after you have found the stance that suits you best, after you have dry fired and practiced until you are razor-edged and ready, you will either win or lose pistol matches *in your mind*. The difference between Harry Reeves, the greatest pistol shooter the world has ever known, and any one of forty other pistol shooters in the United States, is the fact that Reeves has a co-ordination of mind, nerves, and muscles whereby he literally FORCES every shot he makes in competition to be good. Merely being able to shoot a good score isn't enough. To win, a man must have also the mental drive to shoot a *better* score in tough competition, when it counts!

What does it take to be a handgun champion? The ability to hold and squeeze—plus the Will To Win—plus the stance and other nonessentials that best suit the individual in question—plus practice. Plus more practice.



But what am I saying? What it takes to be champion is merely the ability to walk up to the line and take a three-gun aggregate away from Harry Reeves! I have given up hope of any of our prewar crop ever doing it! Maybe some one of the postwar crop can!

Simplified Small Arms Ballistics

(Continued from page 27)

is pointing upward when the bullet is projected. Therefore the bullet is pointed above the target. The rifling spins the bullet so as to keep it pointed straight ahead. If the spinning bullet really has gyrostatic stability, why doesn't the bullet *keep* its nose pointed upward and strike on the *side* of its point? Why does the nose of the projectile follow the downward curve of the trajectory to hit the target point first?

The explanation is involved and varies in its details as worked out by different authorities. However, all authorities accept the same *principle* to explain the action of the projectile in keeping its point approximately on the line of the trajectory's curve. Briefly, the explanation is this: As it leaves the gun the projectile is pointed above the trajectory curve (Figure 1). The spinning bullet is a gyroscope with its center of gravity more than halfway toward its rearward end (because of its pointed nose). The center of pressure from the resisting air is well forward on the under side of the bullet's nose. The center of *pressure* is *forward* of the center of *gravity* so the air pressure tries to push the nose of the bullet higher (and further *above* the line of the trajectory curve) (Figure 2). The bullet-gyroscope resists this effort and, following gyroscopic laws, the point of the bullet begins to describe a circle downward and to the right (assuming a right-hand spin) around the center of pressure (Figure 3). Physicists describe this movement as a "precessional revolution." As the nose of the bullet *dips* the axis changes and the center of pressure from the air shifts. The net result is that the point of the bullet in following its clockwise cycle never climbs quite as high *above* the curve of the trajectory as the point from which it started its previous precessional revolution. Thus the nose of the bullet tends to follow pretty closely the descending curve of the bullet's trajectory.

Another characteristic of a bullet in flight which interests the ordinary shooter is the drift of the projectile to the right of the line of sight. (The drift is, of course, to the *left* in those few cases where the gun has a *left-hand twist* to the rifling.)

It was formerly taken for granted that the "drift" of a bullet in the direction of its spin was caused by the projectile "rolling on air." This is undoubtedly a contributing factor but is now believed to be a negligible one.

It is now agreed by ballisticians that the principal cause of "drift" is the precessional movement of the bullet which was discussed in the preceding paragraphs. It is believed that the nose of the bullet moving clockwise around its line of flight consistently bears further to the right on its downward swing than it bears to the left on its upward movement. As the axis of the bullet turns further and further downward (along the curve of the trajectory) it also turns further and further to the right. Technically speaking, the movement of the axis of the projectile is "cycloidal." This theory checks with the known fact that the drift becomes *more* pronounced as the range becomes *longer*. If drift were caused primarily by the bullet "rolling on air" it is obvious that the drift would *decrease* as the range was extended because the longer the bullet remains in flight the *slower* its rate of spin! *(To be continued.)*

Sight-Seeing With the Army

By LIEUTENANT JOHN E. MINTER, JR.

IN THE OLD DAYS of the muzzle-loading musket, the hand-cast bullet, the powder horn, and the flint-lock primer, the quality of accurate marksmanship involved several factors other than the good eyesight, strength, co-ordination, and skill of the shooter. Bullets were never exactly the same size or the same shape; one round might allow twice as much gas to escape as another round from the same mold. The hand-poured powder charge could vary several grains even in the hands of an expert; and while tournament shooters could gain a high degree of uniformity in weight of charge by the use of scales, such nicety was never possible on the battlefield.

These factors, along with varying qualities of gunpowder and the uncertain timing between trigger pull and discharge, harassed the marksman with problems which he could not control—shortcomings not in his own ability but in the weapon he had to use.

Today, however, practically all mechanical variations have been reduced to a negligible minimum. Powder quality is uniform within the batch, and variations between batches can be determined accurately in advance to allow compensation in quantity. Projectiles pour from mass-production machinery by the million, with practically no variations in weight and shape.

In fact, the mechanical perfection of today's firearms leaves the matter of accuracy dependent very largely on the skill with which the weapons are handled. A shooter who fails to hit what he wants to hit can't very well place the blame anywhere except on himself. This does not hold true entirely in aerial gunnery, where cross winds are unpredictable and ranges may change as much as a mile or more in a few seconds; but even there the gunner has no complaint against his weapon; such variables are uncontrollable.

This increasing accuracy of weapons has brought increasing importance to the efficiency of the sights. Progress in sighting equipment has closely followed the gains toward mechanical perfection in guns and ammunition. But practical considerations such as mass production, hardships of field service, and the necessity for sights which will work well in spite of wide variations between individual eyesights, have presented unusual problems in the development of sighting equipment suitable for military combat use. Sights that are highly efficient on the target range may be too easily obscured by mud, too easily broken, or otherwise unsuitable for combat conditions; and telescopic sights used with fine effect on spec sniper rifles, are hardly practical for general bat use by the average soldier.

Fig. 1

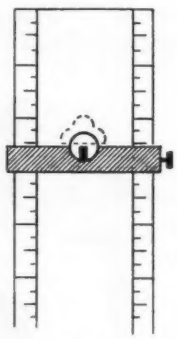


Fig. 2

The sighting equipment which the Army does is quite competent for its purpose. On the indiv ually-fired weapons it runs the gamut of sight typ For ground machine guns, pistols, and some spec weapons we have the notched, flat-top type. T Garand rifle has the centered-aperture type; t Browning sub-machine gun has the aperture adjust for a "fine sight." Long-range snipers are equipp with telescopics, and aerial gunners use the grill-an cross-hair type, which is far too delicate for field u but excellent for a fixed gun position in a pla Other variations appear as we call the roll of various Army-used weapons.

The simplest sight is that of the Colt .45 automat pistol (Figure 1). When the front sight is center in the notch of the rear sight and level with the f top, the bullet will strike a known distance abo the aiming point at which the top of the front sig is held. Windage provisions are unnecessary because of short accurate range of the weapon. Some ground machi guns have the same type of sight (Figure 2), with the add features of adjustment for elevation by moving the rear sig level on a graduated frame, and for windage by moving rear notch to right or left. Most recently produced sights this type have the inconsequential variation of an apert rather than a notch in the rear sight level.

A variation of this sight type which was experimented w but never approved is depicted in Figure 3. The forceps-shap rear sight allows a fuller view of the target and the immedi area surrounding it, but it has the disadvantage of catchi in clothing and equipment, and the danger of being bent broken by hard use.

Another variation, interesting but considered impractical, the front-left-half-circle and rear-right-half-circle (Figure Holding the two points together and on the target trains gun. But the average eye rebels somewhat at focusing outline of a symmetrical figure, half of which is at a mu greater distance from the eye than the other half. Howev some tournament shooters whose eyes happen to be adapt to it have chalked up enviable scores with this type of sig

The Garand semiautomatic rifle is equipped with the c tered-aperture type (Figure 5). Crack-shooting soldiers son

Fig. 3

Fig. 4

Fig. 5

Fig. 6

Fig. 7

Fig. 8

mes add their own improvised cross-hairs (Figure 6); but ch improvisations are illegal in firing the record course and ould be a worthless refinement in combat.

The "fine sight" of the Tommy gun is confusing at first to id hands who have learned the center-aperture sight picture thoroughly that it is second nature to them. They wonder hy they shoot high, even at the comparatively short ranges the submachine-gun record course. The sight picture is ard to show by diagram (Figure 7) because the front sight ould be almost invisible. Variations in accuracy between dividual shooters are a bit wider here than with the Garand, nce many otherwise good eyes have to see a pretty big hunk

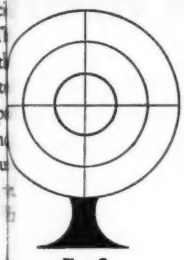


Fig. 9

Fig. 10

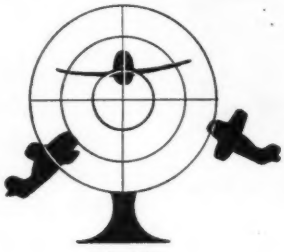


Fig. 11

the front sight before they can be positive that it is actually the aperture, and this raises the muzzle slightly too high. bout the only obvious advantage over the center-aperture pe is the fact that the shooter can see more of his target ithin the aperture when the target is big—and a Tommy-gun rget is almost always close enough to appear big.

Experiments have been made with a two-hair V in the ne-sight aperture (Figure 8) as an aid in determining the act vertical center of the base of the opening. But this s the disadvantages of other cross hairs for field use, and is rdly necessary if the shooter's firing position is sufficiently od that he doesn't cant the piece.

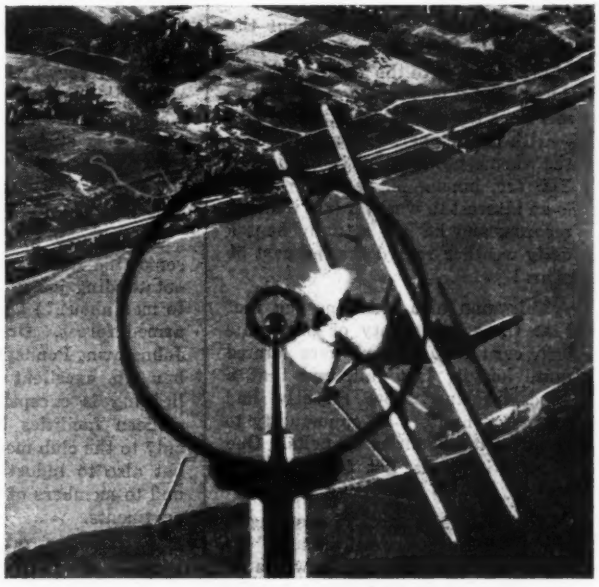
The machine guns and cannon in fighter planes, and certain ns in other types of aircraft, are usually fixed in position, nce have no sighting equipment at all other than the path the plane's flight. But the belly, nose, tail, turret, and waist nners in Flying Fortresses and similar planes (recently using 0-caliber guns almost exclusively) have a sight with which ey can allow for range, windage, and lateral speed of target ithout even turning a screw or adjusting a slide (Figure 9). ch sights, which resemble a grill for broiling a small steak, e ideal for the job, but have few practical features to offer r ground use. They would break off too readily, and they uire a free traverse and elevation, which is not always irable in an organized ground position.

The knob of the simple front sight on such guns (Figure 10) held always on the target, and the rear sight is moved to ep the front sight in its relative position within the grill. fire head on at close range when the target is not moving terally—as when two battling planes approach each other the kill—the knob and the target are held in the center of grill, where the horizontal and vertical hairs cross. For eater ranges the knob is moved straight up the vertical hair. the target plane is diving in a line directly vertical to the ht of the gunner, leads are taken by shoving the knob down the vertical hair. If the target is zooming, shove the muzzle k up. If it is moving from left to right, leads are taken moving the knob to the right of the vertical line, and vice versa. When it is moving diagonally, both factors must be considered in determining where to aim. (Figure 11.)

With tracer bullets spaced at intervals through their ammunition belts, aerial gunners can watch their cone of fire and thus help to correct errors of lead and range.

Many of the newer antiaircraft guns have an interesting variation of the cross-hair principle. One of the gunners sights the horizontal hair, and the mechanism he controls does nothing but raise and lower the muzzle of the gun. The other gunner is responsible for the vertical hair, and controls only the right-and-left traverse of the muzzle. When either gunner has his sighting hair on the target, he pulls his trigger; but the gun does not fire until both triggers are down at the same time. When either gunner loses the target in his own sight, he releases the trigger, and the firing suspends automatically even though the other gunner is holding his own trigger down. Theoretically, then, the gun does not fire unless it is trained on the target, though the two gunners work independently, saying nothing to each other during the firing. Other members of the gun crew estimate the range and cut the fuse of the shell so that it will detonate at the desired height, correcting if necessary after observation of the first few bursts. Experiments are now under way with an improvement on this method, but its nature is still secret.

The characteristics of the mortars place them outside these types of sighting methods, and relate them closely to the



Sight picture as the aerial gunner actually sees it in combat.

heavy artillery, whose crews may not be able to see one-tenth of the distance to the target by line of sight. The mortar sights are laid on a stake driven into the ground near the piece, or upon a natural object—anything that has a sharply defined vertical edge.

Another field, that of the sighting equipment and the sight pictures used in the latest developments of bomb sights —and yet another being perfected for the automatic, mechanical range-and-deflection computer—while clearly within the scope of the topic, cannot be discussed at this time because of the highly secret nature of their intricate mechanisms.

A PAPER FOR PEOPLE WHO SHOOT

Rifle Remington (DUPONT) News

BRIDGEPORT, C
APRIL, 194

Possibles and Impossibles

by **FRANK J. KAHRS**

One of my faithful correspondents who never fails to write me at least once a year is a young fellow from Norvell, Michigan. I say "young fellow" not in the sense of his being young in years, because he has already stretched the allotted three score years and ten to almost four score years and six! But he is young in spirit.

In a recent letter he asks what the chances are for some sporting ammunition in the near future, because he is down to his last 16 cartridges. They're .25 Remingtons, and he has been hoarding them as a miser hoards his gold. I told him, "There's no harm in *hoping* they'll be along soon again."

He goes on to tell me about the mild winter they have been having in Michigan, with the ground dry and dusty as it is in summer, and he mentions the fact that January 26th —with the temperature at 64°—was the warmest January 26th of his life. You see, among his many interests is an interest in weather and weather records, and he has actually kept a daily weather record for the past 50 years!

This man also mentions the fact that there are plenty of pheasants left, even though they were hunted quite heavily last fall, and that a good tracking snow recently had given fox hunters an opportunity to collect some bounties on pelts. One hunter, it seems, got four foxes in one day, which is pretty good going!

My friend's interest in shooting is still as great as ever, because his spirit is young. In fact, he winds up his letter by stating that when he can't shoot any more, Gabriel had better take a deep breath to start blowing that horn—mebbe. It sure is grand to be able to keep your thoughts young.

Good hunting to you, old timer, young fellow!

* * *

A good friend of mine in Allentown, Pennsylvania, reminds me that his club, too, has a covered firing point. It's a fine range—no doubt about that. The Bear Rock boys

shoot there quite regularly when they can get ammunition.

I remember very well when the club started shooting there. They didn't have a covered firing point in those days, but they got along pretty well. However, there isn't any doubt that a covered firing point adds comfort and pleasure to shooting. That's why I'm all for it.

Thanks very much, Bear Rock, for reminding me about the fine range where you are shooting. I'll be up again this spring for a little visit.

* * *

Every now and then I hear of some rifle club that is doing a really outstanding job of teaching shooting to men about to be inducted into the armed forces. One such club is in Johnstown, Pennsylvania. This club has an excellent range, and the lighting is exceptionally good. Its modern facilities are available not only to the club members themselves, but also to industrial plant guards and to members of nearby police departments.

Another club that deserves honorable mention, with orchid attached, is the one at Williamsville, New York.

I'd like to hear about other clubs, too. Don't be bashful. Let me know about the activities in your club or any club you hear about, and I'll be glad to pass the word along. Remember, there are a lot of fellows in the armed forces who are still able to get the Rifleman and read about doings at home. They would be glad to see that their home town club is among those to receive honorable mention for training of pre-inductees.

So come on and put pen to paper!

4 more reasons why

"IF IT'S REMINGTO
IT'S RIGHT"

Quality control of Remington ammuni on incl constant testing. In normal times we pul Remin cartridges off the production line at the ate of a *7,500 per working day* to make sure they're perf ing as they should.

A good many are fired for accuracy in group of course. And here are some of the *other* tests w every batch of Remington ammunition must with flying colors . . .

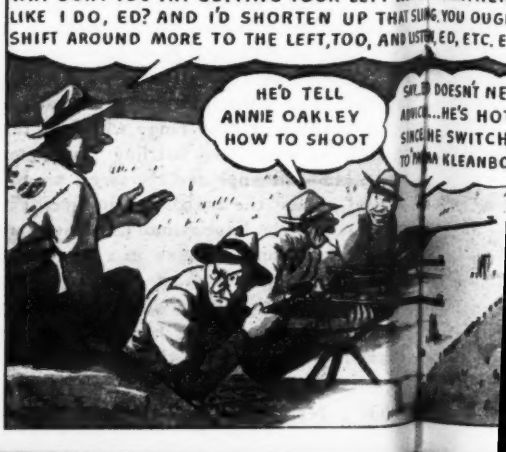
1. SENSITIVITY OF PRIMER. A two-ounce weight is automatically dropped on a firing pin from a specified height, and that must ignite the charge — or else! *Result: Misfires in Remington cartridges are as rare as eels with hips!*

2. BARREL PRESSURES of Remington cartridges are checked in a specially designed pressure gun. *Result: Every Remington bullet has just the right amount of oomph behind it— all the way to the target.*

3. PULL TEST. The amoun energy necessary to forc bullet out of the cartridge must be unvarying beyo very small percent. *Re Another accuracy factor trolled.*

4. ADAPTABILITY TEST. Remi ammunition is fired in all p lar makes of rifles and pi to make sure that it perf properly in every one. *Re No matter what make rifle or pistol is, Remi ammunition is right for*

THERE'S ONE IN EVERY CLUB . . . . . *Helpful Hen*


WHY DON'T YOU TRY GETTING YOUR LEFT ELBOW IN FARTHER
LIKE I DO, ED? AND I'D SHORTEN UP THAT SLING. YOU OUG
SHIFT AROUND MORE TO THE LEFT, TOO, AND LISTEN, ED, ETC. E
HE'D TELL ANNIE OAKLEY HOW TO SHOOT

BRIDGEPORT, CONN.
APRIL, 1944

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ake sure that it performs
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matter what make your
or pistol is, Remington
unition is right for it!

. . . . Helpful Henry

"Won't it be swell when . . . ."

1 WON'T IT BE SWELL when you can actually go hunting again? Sure! But meanwhile, why not do this? . . . Just settle yourself in your easiest easy chair. Think the word "hunting." And when your imagination starts to play, play along with it!

2 PRESTO! No more war shortages, and you're in a store chock-full of fine guns. Look at that Remington Sportsman. Snap it to your shoulder. Fits like part of you, doesn't it? Points as easily as your finger — fires three shots as fast as you pull the trigger! Want it? It's yours!

3 NOW FOR SOME DUCKS — on a marsh that's alive with 'em. Your pockets are full of Remington Express shells — powerful, long-range loads. And you're making the toughest shots look easy. (Wait till you tell the boys about that double you got at 60 yards!) What? You've bagged your limit already? Never mind, mister. You can come out again some other day! Good sport, isn't it? Even only imagining. Maybe before long you'll be doing the real thing!

4 SO—right now—make a note. Tie a knot in your handkerchief—tie a string around your finger—write on your calendar pad—paste in your hat: *Remington means America's finest sporting arms and ammunition!*

NEW! Looking toward the day when we can again supply essential civilian ammunition, we've designed these new, easier-to-recognize packages for two of your old Remington friends.

Remington Sportsman 3-shot autoloading shotgun.

▶ Remington has produced vast supplies of military arms and ammunition for our armed forces. For months on end we produced 30,000,000 rounds of military small arms ammunition—*per day!* We also produced—*per day*—more than enough military rifles to equip an entire infantry regiment at full fighting strength! And soon—we hope—we will once more be able to furnish sportsmen with Remington shotguns and rifles, Remington Express and Shur Shot shells, Remington Hi-Speed .22's with Kleanbore priming, and Remington big game cartridges with Core-Lokt bullets. *Remington Arms Company, Inc., Bridgeport, Conn.*

Remington

DU PONT

"Sportsman," "Express," "Shur Shot," "Hi-Speed," "Palma" and "Kleanbore" are Reg. U. S. Pat. Off.; "Core-Lokt" is a trade mark of Remington Arms Co., Inc.

POWDER SMOKE: READERS COMMENTS THE NEWS DESK

RE-LOADS . . .

DIVIDENDS

Eglin Field, Florida.

Editor:

In answer to your question about the advantages of the experienced rifleman over the untrained man in the army, I can say this:

Previous knowledge of the handling of firearms, whether it be from barnyard plinking or from serious range competition, will always be of great benefit to any man in the service. Co-ordination is, I believe, the main advantage the rifleman has over the average soldier.

Even more helpful is the combination of shooting skill with technical knowledge possessed by many experimenters and varmint shooters. I cite, as an example, my good friend and shooting partner, John J. Hoefner, a corporal in the armament section of a pursuit squadron somewhere in England. John writes me that he has just completed trajectory and drop charts in the calibers used by his outfit, so that, after he bore-sights and targets the guns, he can show the fighter pilot exactly what will happen when the trigger is pulled.

So the same type drop charts that John and I made up for our chuck rifles will now pay dividends in Nazi planes—thanks to one American rifleman!

Harry O. Dean.

NRA-EQUIPPED ARMY

Los Angeles, California.

Editor:

Last June, I ran an advertisement in THE RIFLEMAN asking for .45 automatics. I really got the replies! I believe a good-sized army could be equipped by NRA members! They certainly offered the guns to me! I am proud to be a member.

Cpl. Arthur Dickey.

WHY NOT?

Canton, Ohio.

Editor:

Why not conduct a War Bond Drive of our own? Why not make our Arms Chest sales of guns and equipment in terms of bonds and stamps, instead of cash? Bonds and stamps could be made out in the name of the seller and mailed. The buyer would pay less; the seller, by waiting until the bonds reach maturity, would get more. Result: everybody makes money, and Uncle Sam sells bonds!

H. G. Martin.

FORTIETH ANNIVERSARY

Mt. Vernon, New York.

Editor:

We just discovered the other day that we had overlooked the passing of our club's fortieth birthday! The discovery was made too late to enable us to celebrate the event in any of the usual ways—so we're celebrating by starting another Small Arms Training School.

The Mount Vernon Rifle and Revolver Club received its NRA charter in February, 1903. The club today has its own range and a membership that, though small, makes up for that by being active. Our ambition is to carry on and really celebrate our fiftieth birthday!

Arthur W. Weiler.

NO RIFLEMAN AT P. X.

Aberdeen Proving Ground, Maryland.

Editor:

Have been for years a subscriber to THE RIFLEMAN and an ardent supporter of NRA. Am in the army now and am surprised THE RIFLEMAN can't be bought at the Post Exchange. Can't you make it possible for us to get the finest magazine pertaining to our work? Eleven million men would be directly benefited if every soldier could get copies of current issues and reprints of past worthwhile articles at reasonable GI prices.

Pvt. Henry H. Schnautz.

We're sorry, too; but the paper shortage prohibits our printing more than the number of copies required by our subscription list.—ED.

NEW JERSEY FIFTY METER

Two youngsters, Audrey Bockmann and Corp. Tito Balestrieri, cleaned up the old-timers in the Columbia Rifle Club's Fifty Meter Match at Paterson, New Jersey, on February 12 and 13. Over fifty competitors fired in this popular indoor match. Tito Balestrieri, 1943 Metropolitan Rifle Champion, topped the list in the Iron Sight Match with a score of 198-13X. Audrey Bockmann tied Joseph Waltzer for second place with a score but one X less than Tito's.

In the Any Sight Match Audrey again got the best of a tie to win first place. She beat out Sam Tekulsky with a 200-15X score. In his turn Balestrieri took the tail end of another 200-13X tie with Charles Kleinle for fourth.

The Aggregate went to Audrey Bockmann along with its $25.00 War Bond prize. She led Balestrieri Jr. by a single X. Tito's father, M. Balestrieri, 1944 Metropolitan Rifle Champion, took third place with 396-26X, just topping Sam Tekulsky's 396-25X.

METROPOLITAN MATCH RESULTS

The Twenty-Third Annual Metropolitan Indoor Rifle Championship Matches were held on Sunday, February 23, 1944, on the 100-yard range of the Fourteenth Regiment Armory in Brooklyn, N. Y.

Michael Balestrieri of Brooklyn, member of the Roslyn Rifle Club, won the Individual Championship with a score of 500-39X. The only other possible was that of Otto Kolb of Pelham, N. Y., with 500-31X.

Dan Brown and Al Sharp of Outers Club, White Plains, both of whom had 499-35X, were ranked third and fourth. Jack Lacy, the only man to win the Metropolitan twice in succession, placed fifth with 499-33X.

Dave Carlson and Jack Lacy took top honors in the Two-Man Team Match with their 400-29X. John Berger and James Van Sickle of the Columbia Rifle Club placed second with 400-28X, while Otto Kolb of Outers teamed with Lew Weatherbee of Quinipiac to take third place.

Harry Pope, President of the Metropolitan League, we are sorry to report, has been too ill to be present at the last two matches. Lt. Comdr. Thurman Randle was kept busy answering congratulations of his friends on his recent election to the Presidency of NRA.

Many of the competitors were service men. Besides Lt. Comdr. Thurman Randle, there were Lt. (jg) Irwin Tekelsky, Jim Lacy, Freeman Kent, Irwin Gill and M. G. Dean of the Navy and Lt. George Petersen and Corp. Dick Berlin who was tops in X's. He had 40 of them.—ELEANOR DUNN.

MARINES BREAK PISTOL RECORDS

Captained by Major William J. Holloway, USMC, and coached by Warrant Officer C. A. Brown, USMCR, the Quantico Marine Pistol Team went to Charlotte, North Carolina, on February 19, and not only won the tournament but broke two records, bringing home the heavy end of the medals and trophies.

In the first match, twenty shots Slow Fire at twenty-five yards Warrant Officer Brown and Platoon Sergeant E. C. Zimmer of Quantico established a new record of 198 x 200.

The third match, Slow Fire, twenty shots, found Quantico Marine Gunnery Sergeant R. F. Rice establishing a new military record of 188 x 200, which also tied the "open" record.

Match six was the Charlotte Hardware Trophy Match, the shots Slow Fire, ten shots Timed Fire, and ten shots Rapid Fire. First Lieutenant T. E. Barrier of Quantico set a new world's and military record with a score of 294 out of a possible 300.

As a climax to the Charlotte meet, Quantico Marine First Lieutenant T. E. Barrier won the North Carolina State Pistol Championship.

On February 12, the Quantico Marine Pistol Team engaged the Varsity Naval Academy Pistol Team at the U. S. Naval Academy at Annapolis and trounced them to the tune of 1393 to 1347. Then, in a regulation postal match held on February 18 the Marine team took the measure of the U. S. Military Academy Team of West Point in a hotly contested match which ended up with the West Pointers on the tail end of 1377 to 1365 score.

ANOTHER 100 PER CENT PLATOON

From Technical Sergeant Charley Jacobson, platoon sergeant of an Alaskan Infantry outfit, comes word of a rival for the honors claimed by Marine Corps Platoon Number 709—the first platoon, and for a brief while, the only

platoon in history to qualify 100 per cent in rifle marksmanship.

Says Sergeant Jacobson: "We were under pressure, due to a set time limit on preliminary training and range practice. The weather was far from ideal; snow was knee deep, with an eighteen- to twenty-mile wind blowing. We qualified seven Experts, twenty-nine Sharpshooters, and six Marksmen. This was the first firing for record ever done by any of these men except five of our N.C.O.'s. Several of these men are NRA members. I myself have been a member for five years."

MATCH AND RELAY INDICATOR

During every tournament the questions, "What Match (or Relay) is on?" or "What Match (or Relay) is next?" are asked and answered many times; and the answers are not always right, which creates confusion.

The Sparrows Point Police Department, at their Fourth Annual Tournament, June 20, 1943, introduced a Match and Relay Indicator that answered all such questions. This contrivance was found to be a great help to the Range Officials as well as a convenience to the participants and the gallery.

The picture shows the device, which is four feet by six feet with eight- and six-inch lettering. There are four sets of numbers on metal plates to be hung on hooks on the board. A Range Official makes the changes as the Tournament progresses. The board is so installed that it can be taken down and stored when not in use.

THE AMERICAN RIFLEMAN will pay a minimum of five dollars for letters from men in the armed services direct or received through their families, telling of personal experiences or eyewitness accounts of the exploits of individual riflemen in battle, where aimed fire was used with telling effect. These must be true stories of actual events. Fiction is of no interest. We reserve the right to reject any letter the details of which cannot be officially substantiated.

We are concerned with the intimate details which interest the rifleman. We'd like to know the weapons used, the kind of target, distances to the targets, the kind of background, weather conditions, and type of terrain involved, etc.

Information of military importance should be omitted but names of individuals, their home addresses and former rifle club affiliations are desired. Where organizations have been located by name in the newspapers it is permissible to name these outfits.

In all cases, please advise where remittance is to be made; whether to the soldier direct or to his family.

AMMUNITION?

According to a War Production Board release dated March 5, 1944, the ammunition situation is still a question. The gist of a long release is contained in the two short concluding paragraphs which we quote here.

"While it is possible that by fall there will be sufficient ammunition for game shooting, WPB officials said that for the time being none can be spared from supplies necessary to crop and livestock conservation. No ammunition will be made available for amusement purposes, according to the WPB statement.

"If facilities recently released by the armed services are required for additional military ammunition, even this restricted program will not be fulfilled, it was pointed out."

As to just what this may mean to shooters —your guess is as good as ours!

COMING EVENTS

California, April 9—Far West Small Bore Rifle. Glendale Rifle and Revolver Club. J. E. Cornell, 662 Arden Ave., Glendale.

New York, April 15-16—Antler's Rifle and Pistol Club gallery match at Lost Battalion Hall Range, Elmhurst, Long Island. James Niblock, 69-25 Manse St., Forest Hills.

Georgia, May 7—Small Bore Rifle Tournament. Gainesville Rifle and Pistol Association. O. J. Lilly, Gainesville.

Illinois, May 13—1944 Pistol Tournament, Deerfield. Sheridan Rifle & Pistol Club, Inc. C. Myron Huls, 1821 Broadview Avenue, Highland Park.

May 28—1944 Rifle Tournament. Deerfield. C. Myron Huls, 1821 Broadview Ave., Highland Park.

Louisiana, May 13-14—4th Annual Small Bore, New Orleans. Crescent City Rifle & Pistol Club. Thomas L. Hollis, 6323 Patton Street, New Orleans 13.

Oklahoma, June 11—Magic Empire Small Bore, Tulsa. Veterans of Foreign Wars and Tulsa Rifle Club. Dixie Clark, 114 S. Detroit, Tulsa.

Montana, June 25—Annual Rifle Tournament, Anaconda. Anaconda Rifle and Pistol Club. E. J. Perro, Box 1102, Anaconda.

Nonregistered

Ohio, April 29-30—Seventh Annual Spring Tournament, Mariemont Rifle Club, Mariemont, Cincinnati.

STOLEN GUNS

Colt Officers Model .38 #541118, six-inch barrel, blued; Hi-Standard Model B .22, #16989; Smith & Wesson Hand Ejector .32, #219603, blued; from Irving Laird, 6619 Pinehaven Road, Oakland, California. Reward.

Smith & Wesson M. & P. .38 Special, #682182; from Paul B. Compton, 4103 Hartford, St. Louis, Missouri.

Service man's guns, serial numbers unknown: U. S. Enfield .30 caliber, .410 single shotgun, .22 Special Remington pump rifle, .22 Colt Woodsman, .22 single-shot Stevens pistol; also a hunting knife and box of 12 gauge shells; from F. B. Wickland, Ortonville, Minnesota.

PERFECT SCORE

S/Sgt. Adam C. Wasicki shot a perfect 220 x 220 over the modified "C" course with the M1 rifle on the Camp Pendleton (Virginia) range. Sgt. Wasicki, member of Major Brownell's P.T.B. Command, is well known as an instructor in small arms.

Wasicki shot 214 and 217 in two practice rounds before shooting the perfect 220. Sgt. Wasicki has thirteen years of service, National Guard and Regular Army. He was a member of State, Regimental, and National Match teams at Camp Perry and holds a certificate as an instructor in rifle marksmanship.

MASSACHUSETTS CLUB SEES RESULTS

At a meeting of the Arlington (Massachusetts) Rifle Club, among letters read from members now in the service was one from Ed Fraser, MM2c, Camp Perry, Virginia:

"Finally got to do some shooting. Shot fifty rounds Slow Fire the first day and got one possible, prone. The range officer saw it and then watched my Offhand. When I finished, he asked me "where the hell I learned to shoot?" I'd like to take him up to the club range and show him some of the boys there who really can shoot!

"After firing the complete course (233 x 240) I was called to the range house and told that the officer in charge was requesting my transfer to the range as an instructor."

Frank A. Belden

Frank A. Belden, co-author with Charles T. Haven of "The History of the Colt Revolver," died suddenly at his home in Weston, Massachusetts, on March 3rd, as a result of a pulmonary thrombosis.

He was a Life Member of NRA and had a life-long interest in guns. He was a collector, owner of a very fair collection of Colt and other American arms. He was interested in trapshooting for years, and was at one time runner-up for the State Championship of New Hampshire. In his later years he became much interested in Skeet shooting. He was a member of the New England Police Revolver League, was Revolver Inspector for the Weston Police Department, and a member of the Instructors' Committee of the League. He was a member of several local gun clubs.

Mr. Belden's work as a writer has been of value to gun enthusiasts everywhere who will regret his death.

Members of the NRA in the armed services are being decorated regularly for "meritorious service" and for exploits "above and beyond the call of duty." Getting this information from official sources would leave us the impossible task of checking *all* citations in all branches of the service against NRA membership rolls. We ask you, therefore, to notify us of any citations awarded to NRA members so that proper mention of them may be made in the pages of THE AMERICAN RIFLEMAN.

NEW BOOKS

"MUZZLE FLASHES"

By ELLIS CHRISTIAN LENZ

Ellis Christian Lenz is a member of NRA, an active shooter of long standing, and an artist and illustrator of ability. More important at the moment is the fact that he writes well and entertainingly, mixing his technical brew with frequent dashes of whimsical philosophy. "Muzzle Flashes" is a serious book from the standpoint of technical accuracy, but the author's ability to poke gentle fun at himself, at arms manufacturers, and at shooters in general eliminates the too-common curse of dryness and egotism.

This book has many of the editorial characteristics of the shooting books of a half-century and century ago. The excellent pen and ink illustrations of notable characters in the shooting world of the past five centuries are done in a wood block technique perfectly adapted to the philosophical, "old-timey" atmosphere that pervades the volume.

To illustrate small arms from a Fifteenth Century culverin to the most modern of target rifles, Lenz has employed a wash drawing technique that has the appearance of an unusually good photograph but which actually brings out the details of engraving, curly maple stocks, and accessories in a manner far superior to any similar illustration we have ever seen in book, magazine, or gun catalogue.

By modern standards, "Muzzle Flashes" is too big a book. Its sub-title says that it covers "Five Centuries of Firearms and Men." It does just that. It contains 813 pages. It is divided into five sections:

(1) Early firearms and some of their users.
(2) Small arms inventors and makers.
(3) Modern target shooting.
(4) Modern gunsmiths and gunsmithing.
(5) Modern handloading methods, woodchuck shooting, notes on modern collectors.

Each of these sections could have been produced as an interesting volume, capable of standing on its own feet. Nevertheless, because of the unusual treatment of illustrations and copy, you will forgive the size of the book. You will browse through its interminable paragraphs as you would browse through the endless passageways of a great firearms museum, if you could visit such a spot guided by the men who developed the weapons and used them to make history.

This book contains no formulae, no working drawings. It exposes no dark trade secrets. It mixes the old and the new, the technical and the philosophical, in utter confusion. Just the same, it is good reading. It is also a good job of book making. It recreates in American literature a type of shooting book that will appeal to thousands of "average shooters" who have found most modern shooting books not too interesting and often too technical.

"Muzzle Flashes," I think, is a *must* for every American shooting library. It is unfortunate that it did not make its appearance early in December, because it would have been the ideal Christmas gift book.—C. B. L.

(813 pages, profusely illustrated by author, $15.00, Standard Publications, Inc., Huntington, W. Va. Available through NRA.)

ON THE FIRING LINE

WITH THE PRE-INDUCTION TRAINING SCHOOLS

THE PROPHECY

"You are well acquainted with the benefits a man derives from rifle and pistol shooting as a sport, through the development of character, physical and moral stamina, self control, precision, and perseverance. But there are additional virtues in this game which are equally important during these times. For example, an applicant for enlistment in the Marine Corps who is an expert rifle or pistol shot is already half way along the path to becoming a mighty fighting man. We believe that you, in your community and sphere of influence, will be able to render immeasurable assistance in the development of the men who are going to win this war—the American riflemen."—MAJOR G. O. VANORDEN, USMC.

THE PROOF

Major VanOrden's statement, quoted above, is just one of many such statements from men high in the command of our armed forces, as to the value of individual marksmanship and as to the service we in NRA are performing in promoting, by means of our Small Arms Training Schools, the marksmanship so essential to victory. Many of those statements have been quoted in these columns.

But the real proof of the pudding lies in the testimonials from the men themselves:

From 1st Lt. William R. Thompson, Somewhere in the Southwest Pacific: "My training through the NRA has largely been responsible for my rapid promotion. Thank the Lord, I made those two trips to Camp Perry and the school there. Your pre-induction training program sounds sweet. We certainly need qualified marksmen out here!"

From Pvt. Harold Girard: "I've been in the service four months and wish I could tell you how much help your rifle course has been to me. It put me a jump ahead of the other boys. Any fellow about to go into the service would benefit by taking the Cleveland Civilian Marksman Course."

From Pvt. Charles Harosky: "Thanks to your training, I qualified as Sharpshooter. I mean it; it helped a lot. Tell John, who was my instructor, thanks for his work."

From Pvt. Charles Vukovich: "I would like to have you know how much it means for a fellow to get the training you give them. A fellow in civilian life doesn't know how to shoot just because he hunts; it takes training to make a marksman, and it's guys like you who can train them!"

From Pvt. F. McCullough: "I expect to make Expert all right, but would like to rack up a really good score to show what several years of NRA shooting dope can do! My Gunnery Sergeant told me that a good score, added to my background, would very likely get me assigned as a coach on the recruit range. In the Marines, I consider that a compliment!"

From Cpl. C. D. Creighton: "I scored a possible, twenty-four points, which qualified me as Expert with the M1. I can conscientiously say that my training in the NRA course was time and money well spent! My marksmanship is entirely due to this small arms course."

From Walter Wright: "I shot 204 x 210 with the M1, qualifying Expert and top man in my company. Also, by coaching my squad at night, I think I helped them make the highest squad average in the company. Four of them made Expert, all the others Sharpshooter. Thanks to the Nester Rifle Club and the NRA pre-induction school!"

The list is endless. But the job ahead is endless, too! From men in charge of fighting units everywhere the call comes back, "Send us more, and more, and still more, men who can shoot!" Keep training them! Start more schools! It's work, yes; it's even tiresome work, at times. But letters like these are its rewards; letters like these, and the knowledge, after the victory is won, that we have had a part, however small it may seem, in winning it!

YOUR TROUBLE, TOO?

For the past year, the Cilco Rifle and Pistol Club, of Peoria, Illinois, has been conducting a Small Arms Firing School, but the results have not been satisfactory. The club members were enthusiastic enough, in the beginning; but as time went on and it became more and more apparent that the program was not reaching the men and boys for whom it was intended, the uphill pull began to be a discouraging factor. Classes were small, with only a small percentage of real pre-inductees, and interest lagged. Something was wrong!

"We found out, finally, what that something was. Shooting is a sport, yes; but today it's more than just that. It's a part of the war effort! It's news! Too, as a part of the war effort, it deserves the co-operation and support of every organization concerned with the promotion of the war effort, even though their major interest may be in an entirely different branch of that effort. With this in mind, we changed our method of approach.

"First: Whom do we want to reach? Pre-inductees. Who are the obvious pre-inductees? High School upperclassmen. We went to the Board of Education; then to the Assistant Superintendent of Schools. We did a job of salesmanship. The Assistant Superintendent of Schools recommended our idea to the Principal and Dean of Boys at one of our High Schools. A meeting of the student body ensued. Out of that meeting, we got a class of twenty-four students—the very A1 pre-inductees we'd sought!

"We talked it over with our local editors and lifted Small Arms Training School items out of the sports pages, into the news sections of the papers. When we opened the school for this first class, reporters and news photographers were there and this time the publicity brought results. The other High Schools are interested; fathers and mothers are calling up, asking when we can enroll their sons.

"Result: renewal of interest among club members, and a general sense of doing the job we set out to do. And, since it worked for us, I'm passing the idea along in the hope that it may help other clubs who are encountering the same difficulties that stymied us."

DOPE BAG

Conducted by F. C. NESS

THIS MONTH:

Rust Tests · Methods · Solvents · Oils · Emulsions · Greases · Combination Cleaners · Rust Remover · Ashurst Cartridges · Standard and Custom · Removing Broken Cases · Hubbell Duplex Load · Trade Dope · Letters.

RUST INHIBITORS TESTED

Some oils and greases acquire a false reputation after casual and inadequate tests of their ability to protect steel surfaces. Sometimes they may be tested under conditions which are not conducive to rust. Under such non-rusting conditions poor and unworthy products will seem to protect adequately, of course, without contributing anything. The thing to do is to subject the sample steel to a combination of salt, moisture, and temperature, both ways; unprotected as well as protected. In addition, a uniform lot of steel must be used for all tests or comparisons, and each sample should be mechanically cleaned by abrasion just before the test. Such untreated samples must begin rusting within three days, or sooner, or the test is false. Salt and moisture must be present at temperatures of 70 degrees F. or above in order to enhance rusting. Samples tested in the same box or tank may be directly compared on the basis of elapsed time, including the first appearance of rust spots, the appreciable spread or advancement of those spots and others, and the total length of the test, or of the period required for a thoroughly corroded condition of the individual sample under daily observation.

On such a basis, in one of our milder rust tests, a nationally known cleaning and preserving oil protected our abraded steel surface for 6 days, advanced in one month, and ended in a total of 40 days. A new sample of the same product also began in 6 days, advanced in a week, and lasted for 5 months. A thinner cleaning solvent began to fail in 2 weeks, advanced in 23 days, and lasted only 5 weeks. A thicker lubricating oil began in a week, advanced in 11 days, and was all done in a month. A sperm oil product of the same consistency held for 33 days, advanced after 3 months, and held out for 6 months total time on test. One of the thinner greases on the same test showed a rust spot on one edge in 6 days. This was considered to be a false test, blameable on an uncoated edge, because there was no advancement for 2½ months, but it ended shortly after that, for a total of only 3 months.

Another barrel grease in this test protected for 33 days, advanced in another week, and was done after 5 months on test. Another heavy grease went 4 months without a spot, with slow advancement for a total of a year. A variation of the same product held for 6 months, advanced in 9 months, and lasted a year on test. A graphited grease also started in the same time, advanced the same, and held as long. It is hard to get a perfect mechanical coating with some of the heavy greases, especially when they contain a large proportion of lanolin which is fibrous or stringy, but an excellent inhibitor. A little sperm oil improves it greatly.

In another mild rust test we had a variety of cleaners and preservatives. One was a nationally known solvent, perhaps the oldest on the market. Its steel sample showed rust in 4 days, with rapid advancement, and total failure after only 34 days. Another newer advertised cleaner had much the same record, showing rust in 4 days, with rapid advancement, but a total time on test of 108 days. Another solvent, marketed by catalog only, also gave up in 4 days, with a steady advancement to a totally rusted condition, in 158 days. Another advertised cleaner lasted only 3 days, advanced in a month, and ended after 2 months on test. An excellent thin cleaner, containing water and capable of absorbing additional moisture, lasted twice as long, or 8 days before rusting. It showed advancement in 20 days, and was all through in 51 days.

In the group of cleaning oils were three cataloged products. The first one lasted 6 days, showed advancement in 3 months, and was done in 158 days. The second one lasted 9 days, with rapid advancement until it was all through, in 2 months. The third one lasted 10 days, advanced in a month, and ended in 9 months. A fourth product in this general class lasted 29 days, with a steady advancement, for a total of 3 months. Of two advertised products, one held for 40 days, with rapid advancement, for a total of 78 days. The other held for 25 days, with steady advancement, for a total of 2 months. There were two other combination cleaners and inhibitors (oils) in this group. The cataloged one lasted 24 days, with rapid rusting until finished, after 70 days. The advertised product contained sperm oil and was one of the best we had used of this type. It held for 1½ months before rusting, advanced in 3 months, and was done in 4 months.

Included were some odd products. Of these the nearest to the classification above was a white cleaning paste. In one sample it lasted 13 days, with rapid advancement until finished, in 3½ months. The other lasted 2 weeks, advanced in 43 days, and also ended in 3½ months. One was a skin-cover protector which held for 15 days, advanced in a month, and ended in 3 months. Colloidal graphite carried in a volatile solvent surprised us by preventing rust in the first 16 days on test. Then it surprised us more by completely destroying its steel sample in the test period of 2 months. A rust-remover sample started rusting at once and completely rusted its steel sample in only 13 days. A sub-zero oil protected for 3 weeks, advanced in 2 months, and was finished after 108 days.

The greases and heavier inhibitors, of course, gave longer protection in the same test. One cataloged grease held for 3 months, with steady but slow advancement, for 10½ months. Another held for 58 days, advanced in 3 months, and ended in 6 months. A third held for 77 days, advanced slowly, for a total of 8 months on test. A fourth held for 2 months, advanced in 5 months, and ended in 10½ months. A homemade grease had much the same record. It held for 2 months, advanced in 6 months, and lasted 10 months. An advertised grease held for 4½ months, advanced gradually to the end, in 7 months.

In this same test, seven heavy grease-type inhibitors were outstanding. Their steel samples showed no signs of rust for at least 7 months and then the advancement was slow, with no more than 50% rusted condition at the end of a year on test. Included in this select group were: Jaymac Gun Grease (containing lanolin), our own 50-50 mixture of anhydrous lanolin and anhydrous vaseline, Ruste Prufe gun grease (containing Rust-Veto), Roycot high-temperature grease, No-Ox-Id "A" Special, Moon Sleek grease, both plain and graphited. Of these, perhaps, only the Jaymac product is still obtainable. There are other good inhibitors, not included in this test, that will be mentioned later, or as they are tested.

In these tests, our method was to lay the steel sample flat in a pan containing a saturated saline solution (salt and water). It was practical, but slow and inconvenient. Our final rust test by this method involved more than a dozen samples of oils and greases, and also one solvent or thin chemical cleaner and preservative. This latter product had the capacity of displacing water. It surprised us by preventing rust for 36 days. It advanced in 2 months, and lasted for 6 months on test. A combination cleaning oil held for 45 days, advanced in 4½ months, and was done in a year. Another oil, not so well advertised, held for 49 days, advanced in 2 months, and lasted a year. A better-advertised cleaning oil held for 56 days, advanced rapidly until discontinued, after 4 months. Two experimental liquids were tried for a manufacturer. The one containing graphite held for 64 days, advanced in 3 months, and ended in 7 months. The plain one lasted 49 days, advanced in 5 months, and ended in a year. The plain stuff was invariably better.

In this same test, we tried four experimental greases for the same maker. These were all made with lanolin, but each with a different type. The regular type held for 85 days, advanced in 6 months, and ended in 21 months. One having a high melting point held for 9 months, advanced in 16 months, and ended in 21 months. The anhydrous U. S. P. sample also held for 9 months, advanced in 11 months, and ended in 21 months. Another "XI" sample of same held for 6 months, advanced in 7½ months, and ended in 21 months.

As a check on the effectiveness of our test, we included three samples of greases previously tested. In our previous test, plain Moon Sleek had held for 9 months and, in graphited form, for 8 months. This time, the plain Sleek held for 7½ months, advanced in 11 months, and was discontinued in 21 months. The graphited Sleek held for only 5 months, advanced in 10 months, and was discontinued in 21 months. The third repeater was Jaymac Gun Grease which had held for 7 months previously. Now

it held for 13 months, advanced in 17 months, and was ended with the others although it was still giving 98% protection. An excellent cleaning oil was also rechecked in this test. It had held for 46 days previously, and now held for 56 days. It ended in 4 months both times. A thinner cleaner was also tried three times with fairly consistent results. The first, old and new, samples both held for 6 days and advanced within 2 months. The latest sample held for 10 days, and advanced a day or two after 2 months on test. Another purpose of repeat tests is to check the stability of a worthy product. When we find an outstanding inhibitor, we put aside some of it for another rust test after a lapse of a few years.

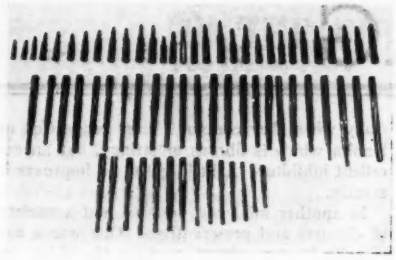
In this final pan-test we also tried three emulsions. A thin white oil emulsion held for 60 days, advanced in 72 days, and ended in 10 months. The same product with an added ingredient held for 47 days, advanced in 4 months, and ended in ½ year. A white paste, or greasy emulsion, held for 16 months, advanced in 18 months, and ended in 21 months. The only unreported product was a "Rust Inhibitor" which held for 3 months, advanced in 5 months, and was completely rusted in 9 months.

This is the final report on the old and milder method of testing rust-inhibiting qualities of any product. All future reports will be based on our tank method, in which as many as 40 different samples are 75%-immersed, all at the same time, in a brine solution controlled at 97% strength by salinometer test. This tank method permits direct comparisons of a great many products in a single test. Although it is more accurate and convenient, its greatest advantage and time saving comes from its quick results, owing to its severity. For example, an oil which had held for an average of 50 days in our pan method, held for no longer than 14 days in this tank. Another good cleaning oil which had held as long as 45 days under our former method of testing, started to rust after only 3 days in this tank. Likewise, the period of advancement was cut from months to weeks, and the total time on test, from 1½ years to no more than 3 months.

THE WORKS OF JACK ASHURST

Until he became a shop foreman in wartime machine work, Jack Ashurst, of Pasadena, Calif., took over Lyman McCrea's gunsmith business, when the latter quit to help Uncle Sam. For one thing, this meant a second transfer of the .230 Thunderbolt, which had first come from Hervey Lovell to McCrea. At present, Jack is night supervisor in the same machine shop, but his first interest is gunsmithing, and he is studying modern methods and equipment for the fine custom shop he has planned for after the war. Right now, he is looking for a first-class lathe.

He has already acquired a fine lot of chambering reamers, all but four made by Red Elliot. Some of these are shown in the print, which also shows the line of Ashurst cartridges, as follows: Improved Hornet, .218 Bee, 2R-Lovell, .219 Zipper, .22 H.P. Magnum, .22-250 Savage, .220 Swift, .224-06, .228-06, .224 Magnum (belted), .230 Thunderbolt, .25 Magnum, .250 Savage, .257 Roberts, .25-06, .270 Winchester, 7 mm Magnum (belted), .270 Magnum (belted), 7 mm Mauser, .280 Magnum (belted),



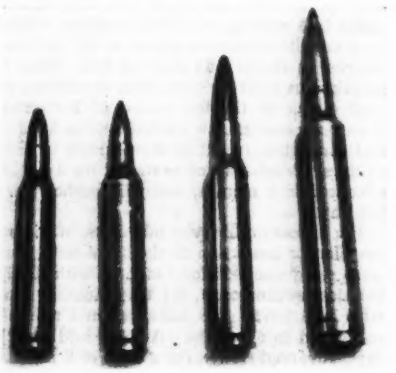
Ashurst Cartridges and Reamers (see text)

.300 Savage, .300 Super Magnum, .30-40 Krag, .30-'06, Super .30-'06, .30 Magnum (.275 H&H case), .300 H&H Magnum, .333 Magnum, .35 Newton, .375 H&H Magnum. There are others; not shown. The latest additions are the .333 and .270 Magnums on the .300 H&H case. He can chamber your proper barrel for any of these in his meager spare time.

Jack devotes his day off, any week, to shooting. The first time out with his .270 Magnum he used 74 grains of No. 4350 behind the Barnes 160-grain, and got as good as an inch spread at 100 yards. The last time out he tried the .280 Magnum with 180-grain bullet and 70 grains No. 4350, which is a mild load. He forms these cases by shooting twice with 40-grain loads. His .22-06 has a 30-degree shoulder and a ¼-inch neck. He has used up to 52 grains No. 4350 behind the 55-grain Sisk bullet "with good accuracy." It is one of his pet long-range loads, "that will reach well beyond the usual .22 Wildcat range . . . an extremely flat shooting .22 . . . on still days had some very fine results at five hundred yards . . ."

Recently, Jack got access to Mr. Cornish's chronograph, and I hope to get some velocity dope before long. So far, I can report on only one load, in the .22-06, and that was 51 grains No. 4350 and the 55-grain Sisk bullet seated .225-inch deep. The velocity, at 10 feet from the muzzle, was 4010 f.s. This powder is fine for the heavier bullets, but it will not give maximum velocities with the lighter .224 bullets. With the right load of 4064 or 4320 powder, up to 4500 f.s. can be expected with the 40- to 50-grain bullets. I am awaiting figures from Ashurst on such loads and on his series of belted Magnums in all calibers.

Four Ashurst Loads Below: (Left to Right): .220 Swift, .22-06, .270W and .270 Magnum



KINKS

For removing broken shells stuck in rifle chambers, G. W. Thiessen suggests corking the neck tightly, filling the case with shot (No. 8 to No. 6), corking the broken body end and pushing it out with a flat end rod, introduced at the muzzle. The shot roll and expand as a mass to grip the case walls under this rod thrust and so carry the case with them. They scatter when clear and should be caught in a pan. So far the corks have worked for Mr. Thiessen who has contemplated substituting sealing wax if the corks should fail to hold.

Van Allen Lyman suggests ordinary taps in over-caliber sizes. He uses a 5/16 inch or .3125 tap for the .30 caliber case. The sharp hard threads of the tap are screwed into the brass case only a few turns and then the whole is knocked out with a rod. This is similar to my old method of selecting, cutting off and using the proper size of woodscrew for removing broken shells. Their slots provide the means of turning them, and a right angle screwdriver can be used when awkward chambers are involved.

Julius W. Long suggests saving targets by using more pasters over the backs of bullet holes. The idea is to preserve the scoring rings as long as possible by pasting only the back of the target. He uses gummed tape for this purpose and in strips which also serve as a reinforcement.

Martin Friedmann, Jr., uses floor wax to protect the outside of his guns outdoors in wet weather or in the duck blind. He suggests clocks and wrist watches as a source of fine springs for guns.

Ferd Bollum enlarged the chamber of his .220 Swift with a vise, a carpenter's brace, and a twist drill. The latter was ground to shape and a shank welded on and taped for a guide. For the finish he sawed a 3-inch slot in a 3/8-inch rod and wrapped it with emery cloth. He fired 30, 40 and 45 grains of No. 4350 successively in expanding his cases and lost 40% of them. His ultimate Super Swift load was a shell full of that powder behind the 63-grain Sisk Express, seated to an overall length of 2¾ inches with No. 9½ primers. The penetration was about ½ inch of boiler plate at 100 yards. His freebored barrel showed ¾ inch of erosion under 400 shots, and he is having it rebarreled for the .257 caliber. He said extraction was fine. He did the same to his .270 but used a lathe instead of the brace, and lost only 5% of his cases in firing only two shots per for reforming. His final load was 63 grains of No. 4350 behind the 130 grain O.P.B.T. bullet.

MORE RELOADS FOR RIFLE CLUBS

In response to the story on "Reloading .30-'06 for Club Use" by the Miami Club in the January AMERICAN RIFLEMAN, Harlow Pease offers a gas-check load used by T. W. Stein and himself on military targets up to 300 yards. The bullet is Ideal No. 308334 alloyed with tin, antimony or type metal to weigh from 189 to 192 grains and sized .311 inch to chamber in all .30 caliber rifles. The load is 32 grains of Pyro D.G. and either the F.A. No. 70 or modern primers. Although not finely accurate it is adequate for its purpose, and not the slightest leading has been noted from this load.

Mr. Pease has established required elevations for this load based on the zero for M1 service ammunition at 200 yards and at an altitude of 5000 feet. These additions, in minutes of angle, are: 15 at 200 yards, 20 at 300, 28 at 400, 39 at 500, and 50 at 600 yards.

LIKES NO. 4227 POWDER

Gustav W. Sussdorf, of Essex County, New York, has had good success with light loads of No. 4227 in the Hornet, .32-40 and .257 Roberts. In the latter he has tried many different factory lead bullets and lead-alloy bullets with charges ranging from 7½ to 15 grains. One of his best loads was 10.7 grains behind the 90-grain, gas-check bullet, No. I257312. Using a 4X Wollensak scope on his .257 Roberts, they shot into each other at 50 yards, which was his testing range for all loads. Cutting this load, even as little as ½ grain, on his B&M Visible Powder Loader, appreciably enlarged the group.

FRONT IGNITION DUPLEX LOAD

U. S. Hubbell is using a long flash tube in his .257 Roberts cases, for front ignition of his combination charge. After priming he plugs the flash hole near the shoulder of the case with a match, toothpick, or splinter, and loads 30 grains of No. 3031, followed by 10 grains of No. 2400. This latter is next to the bullet base but is ignited first. Out of fifty combinations tried, he says, this is the best one behind the 100-grain Silver Tip bullet, and it is better over 300 yards than a straight 40-grain charge behind the same bullet. He said it was a lot of bother to prepare cases and to load that way, and the tubes burst too often.

UNUSUAL MODEL 64 ZIPPER

Dean Astles says the original accuracy of his lever-action repeater included seven consecutive shots in a three-inch circle at 200 yards, and sure kills on chucks up to 250 yards. After about 3000 rounds the accuracy "is not so hot."

AVOIDING BLOWN CORES

M. Jarman, of Phoenix, Arizona, turns down the bases of his 150-grain service bullets until they accept a regular .30-caliber gas check. He leaves a slight bevel to crimp them, and evens the job in his bullet sizer. He then exposes a considerable portion of the core at the nose, by cutting off the jacket in his lathe. When done, it weighs 135 grains, and it expands reliably at 3000 f.s. He uses 52 grains of No. 4064 in the .30-'06 and gets 3-inch groups, prone and sling, at 150 yards. He has used as much as 57 grains.

TRADE DOPE

Forthcoming. A new book is well along in preparation and now needs the co-operation of our readers for completion. The job is a worthy one, aimed at listing all cartridge makers of all nations, together with all the different base stampings or head markings of each firm. It is being done by H. P. White Company, of Cleveland, Ohio, P. O. Box No. 1852. If you know of any obscure cartridge maker in danger of being overlooked, or if you have seen an unusual cartridge that needs identification, send your dope to Mr. B. D. Munhall of the above firm. When done it is going to be an extremely interesting and useful book; just how complete and useful will depend on your co-operation or dope. Pictures Wanted. Another book is in preparation by R. F. Simmons, U. S. Customs Dept., Everett, Washington. This one is on wildcats or custom loads, and the author is appealing for photographs of rifles or cartridges, which may be sketches showing dimensions. He also wants any other dope on wildcats including loads, groups, and trajectories, etc. A Third Book. This one is about ready to go on the makeup and making of primers, with 5 formulae of nonmercuric, no-glass, nonhygroscopic mixtures, one being noncorrosive. It is mimeographed, in letter-head size, in a limited edition by M. J. Albert, Cedar Falls, Iowa.

* * *

Eddie Bauer Catalog. An illustrated 32-page booklet, about 8 x 5½ inches, features down-filled quilted outdoor garments and sleeping bags. Also shown, are tents, packs, pillows, and luggage bags. Eddie Bauer makes these products for the armed forces, but can furnish some of them to sportsmen also, or accept back orders for later delivery. Send no money.

* * *

King Gunsight Co. moved on March 1 to 667 Howard Street, San Francisco 5, California.

* * *

Gunsmiths. Justus A. Smith, Palos Verdes Estates, California, has done some fine conversion jobs for Geo. W. Spence, according to a letter from the latter. Mr. Spence makes utility scabbard knives, for our boys in the Pacific only. None for sale. His address is Steele, Missouri. No replies to requests. Rockview Penitentiary is doing the same thing according to their sample. The general design and construction of these heavy knives are very similar, we understand. Fred F. Wells, of Butte, Montana, has gone into full scale gunsmith work, and we have had letters of praise from one or two of his customers. He is specializing in bull pups, including the required trigger extensions, but can make complete rifles of sporting and target type, special bands and ramps, shorten Mauser actions, alter bolts, etc. At two bucks a throw he can turn out samples of his superduper .30-.50 M.G. cases.

Club Reloading. Have been intending to write to you ever since the January "Rifleman" arrived, so here goes.

This is with particular reference to the article about reloading 30'06 for club use. This club has handloaded thousands of 311413 gas-check bullets in the years past and we found that real good accuracy could not be had with this bullet, regardless of temper, with loads approaching 2000 feet.

I have no idea how many thousand handloads we made up with this bullet but do know that we tried all kinds of powder; Pyro, 16, Hivel, Lightning, DuPont Shotgun, 80, etc., and of all of these we had the best results with DuPont Shotgun screened through fly screen to eliminate the very fine particles and dust. When 1204 was produced we tried a canister of that and from that time on used nothing else. We used a load of 18 grains, after some trials with other sizes of charges, and figured that we were obtaining about 1800 feet with it. The first couple of hundred charges were weighed, but after that the only time scales were used was in the adjustment of the measure.

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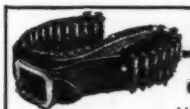

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It is my recollection that we used everything we could find in the way of bullet metal, a great deal of it being cable casing, as the telephone company had been doing a good deal of work around the town and one of the members could get this for free. The only check on bullet temper was that we altered our mixture to give us bullets that weighed 165 grs. without the gas check, the check and grease bringing them up to the 169 gr. standard.

These were really very accurate. To give you some idea of this accuracy here is a story: Turkey and merchandise shoots were quite common at the time, and one Sunday one of our club members called at my house to take me to a shoot that had been planned rather suddenly. It found me without any loaded ammo on hand. I did have some primed cases, plenty of components, etc. Not wanting to take the time to load any before going, I put the necessary bullet seater and powder measure in my kit and took off with him. All cartridges were loaded as fired and together we took home well over half of the merchandise prizes that were put up that day. We used my Springfield Sporter with one of the old Lyman Globe front sights. This was all muzzle and elbow rest shooting. That day we fired about 30 shots between us, and I don't think that any of these were out of the 10-ring of the 100-yard target with well over half of them in the "X"-ring. Together we had hams, sides of bacon, boxes of groceries, and ¾ of a pig that had been put up ¼ at a time.

Having done no handloading for a number of years, spending most of my time with the small-bore of late, I do not know what they are making to take the place of 1204, but should think that, whatever it is, much better results would be obtained with it than with any of the other powders intended for metal-cased bullets and cases of fairly large volume.

I had two dies for my Ideal sizer and Lubricator, .3095 and .311, but we seldom used the .311. Two of the rifles that we had, had very tight necks and would not seat the cases when expanded to take the .311 bullets. We had very good accuracy from the smaller bullets so used them the greater part of the time. They even shot well in a .309 barrel, a Bull gun barrel by Remington on a Springfield, and also in a .311 Heavy Neidner job that had the largest '06 chamber that I ever saw.

You will probably recall a two diameter of base band bullet that was popular at that time; seems that someone won a Metro match with it while they were still shooting light .30 loads indoors. We tried this but did not have much success with it. I even went so far as to try them seated in the barrel separate from the case, Schuetzen fashion.

I think that many make a mistake in not sizing their cases to fit the bullets. Since most of the shooting with these handloads is single shot, there is no need for a very tight fit. All of our cases were sized to give a very light friction fit with no tendency to act as a sizing die when the bullets were loaded, which condition is sure to exist if the necks are too small. —PAUL DODGE.

Astronomy. In the November issue of the Dope Bag, Mr. D. G. Kramar gives a formula for the velocity required in a projectile to leave the earth permanently (air friction neglected).

Aside from his error in the earth's diameter, his whole premise for his argument is erroneous. He happens to have picked on a problem which is covered in many works on analytical mechanics, which problem explains behavior of comets or bital velocity of the earth and other astronomical phenomena.

I thought I remembered this problem from college days, and looked it up in Young's Manual of Astronomy. The velocity Mr. Kramar attempted to describe is known as the parabolic velocity and is the same as would be acquired by a body falling from infinity not under any influence but the earth's gravitational force. This velocity is given as 6⁹⁄₁₀'s miles per second for the earth a little over 26 miles per second for the sun, or a little less than 8,000 feet per second for the moon.

Actually, at great distance from the earth the attraction of the sun would very much exceed the attraction of the earth, and it would not be possible for a body to fall from a practically infinite distance under the influence of only the earth's gravitational field. —ALLEN STERLING.

Wants Smooth Bore. I have a .58 caliber pistol barrel that I would like to convert to a shot barrel. Bore is .58 and lands .53, barrel is 10 inches long. What should the barrel diameter measure at the choke and how long should the choke be? Any information will be appreciated.—R.E.S.

Answer. In smooth boring that pistol I would suggest that you leave the first ½ inch at the muzzle parallel or very slightly choke. Since you will have to remove all the lands and polish it, you will have it about .59 or .60 at this point, as it is important to have it highly polished here. Then back of the ½ inch start a pretty fast taper or about ½ inch to ¾ inch to the oversized bore of .615 inch which will give you a modified choke of .015 inch and a bore correct for the 20 gauge. For the 20 gauge chamber the mouth will be a minimum of .684 to a maximum of .685 inch and taper back to the head at the rate of .005 inch per inch which would make it at least .695 inch at the back ahead of the rim. I am telling you this to be sure you have enough metal in that barrel for this cartridge. The diameter across the lands ranges from .760 to .766 inch which you will also have to accommodate by not only your barrel breech end, but by your recoil plate or receiver wall or breech block according to the type of action. I do not know the size or condition of your action and assume you know whether it is strong enough for the load.

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Groups of figures are counted as one word, also usual abbreviations made up of single characters or initials. Hyphenated words are counted as two.

Non-specific phrases such as "highest prices paid" and "top prices paid" are objectionable and cannot be accepted; the terms "fair prices paid" or "state price wanted" may be used. A *specific* price must be stated on all *for sale* ads, except that a phrase such as "details on request" may be used when listing *quantities* of similar merchandise or *real estate.*

Box number or blind ads will not be accepted. Please give your *complete* name and address, so as to insure the prompt delivery of all mail or telegraphic replies. All advertisements *must* be accompanied by cash. Final closing date is the *5th of the preceding* month.

Please print all advertisements *plainly*—we cannot be responsible for errors due to illegible writing. Spell out all descriptive words; abbreviations may lead to serious misunderstandings and impair the effectiveness of your ad.

We reserve the right to edit all copy to conform with our standards, and to decline or discontinue any advertisement which we consider objectionable. All orders accepted are subject to these conditions.

In describing the CONDITION OF GUNS advertised these standard phrases must be used: PERFECT means factory condition. EXCELLENT means new condition, implying negligible amount of use. VERY GOOD means practically new condition, implying little use, resulting in no appreciable bore wear and only minor surface scratches or wear. GOOD means moderate use with some finish worn off, only moderate bore wear with no pits and nothing worse than a little roughness in the bore. FAIR means reasonable hard service, reasonable wear inside, nothing worse than minor pits in the bore, implying the gun is sufficiently accurate for hunting. POOR means marred appearance and pitted or badly worn bore.

ARMS CHEST transactions are based entirely on good faith and mutual satisfaction. Deliberate misrepresentation or disregard for ordinary business ethics will, of course, result in expulsion from N.R.A. Membership and from the columns of the Magazine.

Purchasers who wish to examine, before acceptance, guns or equipment purchased thru these advertisements should request shipment by express, C.O.D. *with examination privileges.*

All Classified Advertisements must be accompanied by cash. Closing date is 5th of preceding Month.

WARNING!

We have consistently called attention to prevailing ceiling prices for ammunition, which apply to individual sales of ammunition. These prices have been legally fixed by an agency of the Federal Government. Attempts to evade these ceiling prices are violations of Federal Statutes. The attempt by any individual or corporation to secure higher than ceiling prices from members of the Association who respond to advertisements placed in *The American Rifleman* will result in immediate expulsion from the advertising columns of the magazine and in disbarment from membership in the Association.

Members are requested to report to National Headquarters any attempt by *American Rifleman* advertisers to evade legally established ceiling prices.

FIREARMS & SUPPLIES—GENERAL

FOR SALE

REMINGTON DOUBLE, 30" FULL, 16 GA., 125 shells, excellent, new $75.00. Winchester .22 WRF, model 90, very good, 10 boxes cartridges, Marble folding peep sights. $45.00. Harry Krause, P.O. Box 400, Green Bay, Wisconsin.

MODEL 99, .22 SAVAGE HI-POWER LEVER Action, barrel good, outside excellent, $48.00. Remington C&B, all new parts except frame and barrel, $31.00. 25 automatic, good bore, outside nickeled, very good, $10.00. 32 Rim-fire Iver Johnson, Model 1900, very good, $10.00. Warren W. Stafford, Gunsmith, 1 Elizabeth St., Ridgefield, N. J.

45 COLT GOVERNMENT MODEL AUTOMATIC (fair) new barrel, $40.00. 45 Colt single action, 5" barrel (poor) $16.50. First money order. W. T. Brown, 215 East 9th Street, Newton, Kansas

H&R ULTRA, EXCELLENT, 750 SHELLS, EXTRA grips, cleaning rods. Colt Alaska, 7½", gunsmith job on sights and grips, box shells. Old Remington pistol. Bausch & Lomb binoculars, center focusing, 6x30 excellent, case. Old high power scope, long, brass. Eastman 3A kodak. Platinum engagement ring, ¾ carat and 4 small side diamonds like Wards No. 45B8015T. White gold wedding ring with 7 small diamonds. Certified check, $500.00. Zenas F. Mattson, Box A, Centerville, Wash.

7.62MM RUSSIAN SPORTER, PERFECT, REmodeled by Stoeger, cheekpiece, Redfield rear peep, 15 rounds P.P. Kleanbore, $50.00. Royce Rearwin, 310 S. 8th., Salina, Kansas.

ACOUSTION HEARING AID MODEL 28, VERY good, $35.00. Colt 38 Army Special, reblued, fair, factory adjusted, 100 hand, 100 factory loads, holster, $40.00. Remington 44 C&B, reblued, fair, double mold, half can powder, some caps, $30.00. Nickeled .32 revolver, good, 35 cartridges, $5.00. T. Spoor, 55 Park Ave., Poughkeepsie, N. Y.

FOR SALE—SAVAGE 99 EG .300, PERFECT, 29S scope, B mounts, Pacific dies, 2 box shells, $90.00. Norman Anderson, Miles City, Montana.

FOR SALE—CUSTOM BUILT .257 ROBERTS ON a Springfield action, heavy target barrel, target stock, excellent in and out, with a 10-power targetspot scope, Lyman 48 rear and 215 hand loads, 500 bullets, Belding & Mull reloading dies complete, $175.00. Norman C. Nuyer, 847 W. Court St., Cincinnati, Ohio.

9MM LUGER, 1917, 3¼" BARREL, VERY GOOD, holster, $45.00. 32 Colt auto., very good, holster, $30.00. 38 Spl. Army Issue, fair to good, $25.00. Part box ammunition with each. Wm. F. Robbins, Irvington, N. Y.

IF YOU LOVE GUNS, GET "THE GUN DIGEST." The complete guide to modern rifles, shotguns, handguns, accessories in one handy 164 page book. An "encyclopedia" (not a catalog). Days of enjoyable reading: How to choose your gun. How to shoot. How to hunt small and big game, upland birds, water fowl. Historical development of guns. ALL CURRENT MODELS ILLUSTRATED, DESCRIBED. Complete ballistic tables. Military small arms ammunition of World War II. Many other interesting features written by Major Askins, Bob Nichols and 9 other top authorities. Send $1.00 (plus 10¢ postage). $1.50 postpaid in Canada. Money back guarantee! Klein's Sporting Goods, 507 ED, South Halsted, Chicago.

BROWNING 16 GA. AUTO, 36" MODIFIED ribbed barrel. Magazine shutoff, $55.00. O. M. Wirth, Kasson, Minn.

30-40 KRAG SPORTER, REMODELED STOCK, white line pad, nicely blued, good in. $25.00. R. S. Pearson, 2261 Ravenwood Avenue, Dayton, Ohio.

COLT DOUBLE BARREL (DAMASCUS) SHOTgun No. 1126, fine condition, 12 gauge Hammerless (unsuitable modern loads) engraved hunting scenes, traces original gold plating, original stock, inscription "Christmas 1886" engraved on breakdown lever, excellent as collector's piece. $150.00 money order. Karl L. Wilson, Earle Bldg., Washington, D. C.

SELL—YOUNG, PEDIGREED BEAGLE FEMALE. I've no time to train. $18.00. 32 H&E Safety Police revolver, nickel, good to very good, used for dog training, with 500 blanks, $20.00. Savage 99, .250-3000, takedown loose, fair in, out, box ammo, $18.00. Savage 19 target .22 rifle, Winchester scope, excellent throughout, 100 ammo., $40.00. Want—Mershon "No-Slip" butt plate, large for target stock. Fecker, Unertl tube sight. Basil Tuller, Galeton, Pa.

FOR SALE—410 IVER JOHNSON SKEETER Model Double Hammerless, auto ejectors, beavertail, ivory sight. Still in factory grease, $60.00. Oliver #9 typewriter, very good, $25.00. Want—Some 10-gauge Magnum shells. Lester B. Powell, 1823 L St., N. W., Washington, D. C.

WINCHESTER 68 W.R.F., PEEP SIGHTS, EXcellent in and out with 14 boxes new ammunition. $26.50. Harry T. Haight, New Canaan, Conn.

PERFECT WINCHESTER MODEL 12, 16-GAUGE, 26" plain barrel, full choke and 50 shells. Absolutely like new. $68.00. Wallace Patch, Box 221, Lebanon, N. H.

FOR SALE—COLT D. A. ARMY .38 SPECIAL, 6-inch barrel, blue, holster, very good, $45.00. S&W top break .38 nickel, pearl handle, good, $17.50. Money order only. Mrs. Frederick Coffin, 108 Pleasant Street, Arlington 74, Massachusetts.

AUCTION TYPE ADS

Advertisers must state a specific price for items excepting in cases where quantities of similar merchandise are listed. The phrase "details on request" may then be used. But efforts to circumvent this policy by advertisers requesting a higher price than that listed in their classified ads, thus encouraging auction bidding, when brought to our attention, will result in refusal of further advertising from such an advertiser and the rejection of membership renewal.

FEDERAL EXPLOSIVES ACT

Under the Federal Explosives Act of 1941 *all* buyers, sellers and possessors of powder and primers (not complete small arms cartridges) must be licensed. Such license is usually obtainable from your County Court Clerk. Purchasers must submit their license, or a certified or photostat copy thereof, to the seller at time of sale.

WINCHESTER 97, 16 PUMP, FULL, EXCELlent, box 6C, 1st M.O., $40.00. T. Gregorich, Box 25, Painesdale, Mich.

20-GAUGE SPORTSMAN AUTO. GOOD IN AND out. One box of shells, $55.00. One Winchester M. 1892, 32-20 WCF, sling, good in and out. One box ammo. $25.00. Fred Tyler, 505 E. 8th St., Muscatine, Ia.

MATCH TARGET WOODSMAN, NEW CONDITION, 200 fresh long rifle cartridges. Sheepskin holster, $80.00. Excellent D.W.M. Luger, .30 caliber, 20 rounds ammunition, $60.00. 177 caliber Haenel, model 3 D.R.P. Air Rifle, excellent with about 500 pellets and some darts, $25.00. Binocular, Premier Paris 8-27 power, excellent, $45.00. .32-20 Smith & Wesson, good, few carts. $35.00. Snowden Lambert, 401 N. 3rd St., Scottsville, Ky.

REVOLVERS, AUTOMATICS, .22 CALIBER TARget pistols, holsters, etc. Bargain list for stamp, please. Wanted—Used pistols and ammunition. Lee Sales Co., 35 West 32nd St., New York.

REMINGTON MODEL 32 OVER AND UNDER with raised ventilated rib, 26" barrels, both Remington Special Skeet Boring. Absolutely perfect. $225.00. B. L. Masters, 317 King St., Charleston, S. C.

16 DIAMOND GRADE CHARLES DALY DOUBLE, full and modified, 200 rounds, $350.00. Carl Frymire, Silver City, New Mexico.

SALE 44-40 COLT BISLEY, 4¾ INCH BBL., good, shells, $30.00. German Walther 32 auto., good, $17.50. Fred Heyen, Pratt, Kansas.

PERFECT MOSSBURG .22 L.R. AUTOMATIC, Mossburg No. M-4 scope, sling, 500, .22 L. R., special stock, $60.00. Send money order. Philip Cook, Pasadena, R2, Maryland.

ZEISS 8 X 30 DELTRENTIS, VERY GOOD TO excellent, $100.00. Hamilton 22 jewel pocket watch, never used, initialed case, $125.00. Want twenty gauge, high grade double. Nat Breedlove, Valdosta, Ga.

38 COLT O.M.T.—H.B. 6", PACHMAYR. EXcellent, $70.00. First money order. W. T. Brown, 215 East 9th St., Newton, Kansas.

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ANTIQUE AND USED FIREARMS, MOULDS, gunsmith's tools, accessories, ammunition. Send 10¢ for list. H. A. Brand, 1008-2 Ingalls Bldg., Cincinnati 2, Ohio. tf

AMERICAN RIFLEMAN 1932-1942. ORIGINAL wrappers. $3.00 per year, postpaid. Frank Doherty, 5322 Ludlam, Chicago 30, Illinois.

WINCHESTER MODEL 57, EXCELLENT INSIDE and out. Weaver scope with leather dust caps. Selected walnut stock with checkered forearm and pistol grip and sling. 100 shells, $85.00. Winchester Model 72, very good, beaver forearm and sling with Weaver scope, 100 shells, $55.00. Colt's Target Shooting Master, 6 inch barrel, .357 cylinder, target grips, excellent condition, $125.00. W. L. Nash, 2387 Yajome St., Napa, California.

COLT .22 OFFICERS' MODEL, ROPER AND Standard grips, Patridge sights, holster, 100 rounds, very good in, good out, $65.00. P. O. money order. Ed. Flores, Route 7, Box 7, San Antonio, Texas.

SAVAGE 22 HI-POWER 99 TAKEDOWN CARbine, 18" barrel, excellent in, very good out, box shells. $65.00. 3½ HP Waterwitch outboard, very good, $85.00. Roy Bakkum, Waukon, Iowa.

FOR SALE—14 REMINGTON .25, GOOD, 50 shells, $75.00, 1911 Government Colts .45, outside good, barrel poor, $45.00. 44-40 Colt Frontier, 100 shells, $35.00. Trade or Sell—Kroyden, brassie, midiron, mashie, putter, canvas bag, cost $35.00; Bacon tenor banjo, black case, cost $50.00; 32 Iver Johnson hammerless, fair; some high power and pistol shells. Want .22 pistol or? D. E. Porter, Finley, N. Dakota.

FOR SALE—25 NIEDNER-KRAG ON WINCHESter Single High, restyled and restocked by Sedgley, 28", 14" Twist Sukalle barrel, scope rib, 5 A scope, click mounts, 17A front, 103 micrometer rear. Excellent, 65 rounds only. Lyman tools complete, 120 cases, 200, 87 grain bullets, primers, $165.00. 1000 Winchester Soft Point 87 grain bullets, $3.50 per 100. Winchester autoloading model 74 short, perfect, 3000 high speed shorts, $50.00. Wm. Schutte, 2751 Toledo, Minneapolis, Minn.

SALE—SPRINGFIELD .30-06 ISSUE, GOOD INside and outside, $55.00. Two Springfield .30-06 barrels, very good inside, good outside, $6.50, $7.00. Colt .45 Automatic, Commercial, accurate, good inside, fair outside, holster poor, belt and extra magazine, all $45.00. M. J. Albert, Cedar Falls, Iowa.

SPRINGFIELD SERVICE RIFLE, NEW BARREL and receiver #1482424, test fired only, 80 cartridges, $85.00. Winchester Model 12, 12 gauge Magnum, 30" choke barrel, sheepskin case and 120 Magnum shells, excellent, $120.00. Atlas tool post grinder #450, complete for external and internal grinding, practically new, $50.00. Ball bearing tailstock center, #2 Morse Taper, $10.50. 0 to 25mm outside micrometer, German make, excellent, $10.00. Shakespeare Service reel #1944, new, $12.50. P. E. Thaxton, 1320 5th Ave., Laurel, Mississippi.

KRAG CARBINES, ACTIONS-BARRELS, BORES perfect, bluing worn, $22.50. Complete Krag bolts $8.00. Enfield bolts complete $6.00. Mauser 98 issue stocks with all metal parts $2.50. 98M issue barrels, very good, bores both sights $4.00. Military parts, list free. Flaig Brothers, Hunters Lodge, Millvale, Pennsylvania.

FOR SALE—SAVAGE M720 AUTOMATIC, 12-gauge, 28 in. barrel with Poly Choke, very good to excellent condition, with 4 boxes shells. $85.00. Ralph Kiker, Americus, Georgia.

WINCHESTER 94, .32 SPECIAL, LYMAN 1A, perfect, never used, 20 cartridges, $50.00. John M. Young, 1163 President Avenue, Fall River, Massachusetts. Member.

52 WINCHESTER SERIAL 30492, VERY GOOD condition, sheepskin case, Lyman peep rear and 17A front, chin rest, sling, etc., $55.00. 1917, .30 caliber Eddystone, $20.00. Model I Contax f3.5 Zeiss Tessar, Everready case, contameter, Zeiss filters, Weston Universal meter, $160.00. Optiko enlarger for 35mm $40.00. Camera and accessories in A1 condition. Archibald Hurtgen, P. O. Box 484, Louisville, Ky.

COLT .45 AUTOMATIC, GOOD CONDITION, holster, $45.00. Money order only. J. C. Marus, 20875 So. Woodland, Shaker Heights, Ohio.

ONE MAUSER PISTOL 9MM, EXCELLENT IN and out, some shells, $70.00. One .32 Colt automatic, excellent in, good out, leather holster and 50 shells. $40.00. One imported .177 caliber Tell Air pistol, perfect in and out, 150 colored darts, 600 pellets, very accurate, $25.00. One imported full length leather coat, about size 36-37, like new, cost $110.00. Take $75.00. A. P. Gulotta, Member, Avon Park, Florida.

LUGER D.W.M., 6" BARREL, 84 CARTRIDGES, 9mm, Lawrence holster, easy pull, excellent, $55.00. Roy W. Carlton, 1960 Alder, Eugene, Oregon.

357 S&W MAGNUM, 6½" BARREL, EXCELLENT with half box factory Magnum loads, 100, .38 special handloads, 200 empty .38 special cases, $125.00. Money order only. Life Member. Stamp please. J. H. Lasher, 47 Smith St., Canajoharie, N. Y.

WINCHESTER 74 AUTOMATIC, EXCELLENT, with M3-29 Weaver scope and 200 Long Rifle cartridges. Price, $67.50. C. E. Swartz, Wisdom, Montana.

FOR SALE—ONE MODEL 90, .22 CALIBER pump Winchester. 24" octagon barrel (good) with 100 cartg. @ $20.00. One model 24 double Winchester, 12-gauge, 30" barrels with 38 mixed shells, (excellent) $42.50. R. L. Brown, Sloat, California.

FOUR WINCHESTER 75 TARGET RIFLES, MARble Goss, Lyman 17A, excellent in, good out, Remington 513T, excellent in, very good out, slings, all five rifles, $200.00. Benjamin Gerdy, Ocean Parkway and West Avenue, Brooklyn, New York.

38 COLT AUTOMATIC, 87 WINCHESTER STAYNless .38 auto cartridges. New holster. Inspection privilege, $35.00. Complete set Pacific .30-'06 dies, both full length and neck resizing dies, also bullet puller, new, $18.75. L. E. Wilson tools for .30-'06, case trimmer, inside neck reamer, primer pocket reamer, cartridge case gauge, all new, $18.75. Frank M. Harper, Jr., Box 1346, Raleigh, N. C.

SCOPE SIGHTED, .30-40 WINCHESTER S.S., tools, extras, components, ammunition, $150.00. 460 rounds .30-'06, $25.00. Details stamp. Grace, 7717 North 31 St., Omaha 12, Nebraska.

SAUER MAUSER 9MM., LYMAN REAR, IVORY front, set trigger, sling, Jotsam pad, excellent, imported before First World War, ammunition and extras, $80.00. Ben Kurtz, 121 Balph Ave., Pittsburgh 2, Pa.

WINCHESTER STANDARD 70-06, NEVER fired, 60 cartridges, $100.00. Hi-Standard Model B, 6¾" barrel, excellent, 400, .22 L.R. cartridges, $53.00. Krag Sporter, outside good, bore rough, shoots good, 50, .30-40 cartridges, $38.00. Edwin Larson, Rutlidge, Minn.

FOR SALE—2R WINCHESTER LO-WALL, WINchester 52 barrel excellent in and out, single set, cheek piece, scope blocks with 8x Winchester scope double vertical ½ inch dot reticules spaced 6 inches at 200 yards, die, empties, $80.00. Colt D. A. 38, good, $25.00. Hi-Standard B, 6½ inch barrel, excellent in, very good out, old style and barrel slightly loose, holster, $30.00. H&R 32 revolver, 4½ inch barrel, near excellent, with holster and cartridges, $15.00. USRA 10 inch, excellent, carrying case, $40.00. Excellent Swift barrel 70 Standard, $16.50, with sights. 12x Super Targetspot, ¼ minute Lyman click mounts, 2 vertical ½ inch dot reticules spaced 6 inches at 300 yards, near perfect, $110.00. Univex 8mm. Movie Outfit, camera F:2.7, case, exposure meter, 100-watt projector, case, extra, wide angle lens (for small room), screen, titler, splicer, reels and 6 unexposed rolls, complete $65.00. Camera, cut film, 6.5 x 9 cm, Zeiss F:4.5, rapid Compur (400th), new bellows, pack adapter, 3 cut film holders, aluminum shade and filter holder, red and yellow filters, Telephoto lens attachment, carrying case, $75.00. F-R Hi-spot 200 watt with extra $2.50 bulb, like new, $14.50. Electric print dryer 10x14 with chrome plate, as new, $13.50. $12.00 tripod with head, $8.50. Kalart Master flashgun, new, $19.95. 32 #1 flashbulbs, $6.40. Weston Junior exposure meter, leather case, excellent, $20.00. Albert 11x14 easel, like new, $8.95. Cut film, film packs, developing trays, etc., $300.00 of camera equipment for $225.00. Connie Malinowski, So. Deerfield, Mass.

FOR SALE—GENUINE 6.5MM. MANNLICHERSchoenauer sporting carbine, quick detachable factory scope and mounts, 40 Remington soft point, 20 imported cartridges, 30 Barnes bullets, perfect in, very good out, $195.00. Model 70 Winchester .270 with custom barrel by Ackley, Redfield micrometer sight, select oil finish stock, white line pad, Wilson full length resizer and case gauge, 7 boxes factory ammunition, perfect inside, very good out, $180.00. Colt Ace, stag grips, ivory inlay front sight, $18.00 holster perfect, $95.00. Ray Holes, Grangeville, Idaho.

FOR SALE—30-06 WINCHESTER MODEL 70, perfect, $95.00, 30-06 Remington Model 720S, perfect, $95.00, 16 ga. Ithaca Model 37, perfect, $67.00 with rib, $77.00, 16 ga. Winchester Model 12, rib barrel, perfect, $77.00, 16 ga. Winchester, Model 97, perfect, $55.00, 16 ga. Remington Sportsman, perfect, $80.00. Money orders please. Raymond P. Lueddeke, 263 Leland Ave., Plainfield, N. J.

FOR SALE—SMITH & WESSON STRAIGHT LINE .22 single shot pistol, outside good, inside fair to good, accurate, $50.00, Stevens Tip-up .22, twelve inch barrel, combination front sight, Globe and Blade, rear sight, folding leaf, peep and U notch, nickel plated skeleton shoulder stock, outside good, inside fair to good, $30.00, Colt new Police .32 old Model, outside fair, inside poor, $15.00, Savage NRA .22 Match rifle, Model 1919, inside, outside good, $30.00. Alexander H. Montgomery, Hadley, Mass.

WINCHESTER, 70-270, STANDARD, LYMAN 48 W.J.S., excellent, sling, 150 rounds factory ammunition, $130.00. W. G. Leahy, Ridge Road, Rumson, N. J.

REMINGTON 141, .35, LIKE NEW, WITH 4 boxes cartridges. First check, $90.00. Nelson Manning, Millersville, Pa., Member.

GRIFFIN & HOWE .30-40 KRAG, MAGAZINE converted to flush type with box removed, 4 shot. Lyman Alaskan scope with Griffin & Howe double lever mount. Perfect condition. 2 boxes shells, $180.00. Ralph Regnier, 87-08 98th Street, Woodhaven, L. I., N. Y.

BRAND NEW 250-3000 SAVAGE MODEL 99, solid frame, 24" barrel, Lyman windage and elevation rear, shells and case, $110.00. .22 Winchester pump model 06, Lyman rear, $27.50. Bausch & Lomb 8 x 30 binoculars, central focus, $85.00. 12 Belgium Browning automatic 30" full, perfect in, good out, box shells, $90.00. Model 11, Remington 12 automatic, 28" full, good condition, case, box shells, $70.00. Schick electric shaver Model S, $10.00. First M.O. Mahlon Delp, 8068 Fareholm Drive, Hollywood, California.

WINCHESTER MODEL 21, TRAP GRADE DE-Luxe, 16-gauge, 26" matted rib barrel, 1 and 2 skeet, straight grip, single selective trigger, automatic ejectors, beavertail forearm, 14" pull, 1½" at comb, 2¾ heel. Wood exceptionally fine. Shot once at skeet. Purchased brand new October 1943. Factory condition. Want list price $181.00. Will sell one to six boxes of X-pert 9C at $1.32 with above. Ship C.O.D. Examination privileges. Inquiries answered. David J. Bond, 33 Burbank Terrace, Buffalo, New York.

38 SPECIAL, COLT OFFICERS' MODEL, 6" BARrel, excellent, with 150 cartridges, $55.00. Lt. (jg) E. A. Newman, 3917 Keswick Rd., Baltimore, Maryland.

MATCH TARGET COLT, PERFECT, 400 rounds, extra clip, cleaning rod and holster, $90.00. Savage .300, Model 99, 60 rounds, sheepskin lined case, excellent, $95.00. 250-3000 Savage, 40 rounds, needs reblue, bore very good, $55.00. 30-30, Model 94 Winchester, fair, $30.00. George W. Thompson, Box 161, The Dalles, Oregon.

25 REMINGTON 30S, GOOD OR BETTER, 500 cartridges, 500 primers, bullets, powder, loading tools, etc., $100.00. Walter Kendall, Converse, Ind.

SELL 45 COLT AUTOMATIC, PERFECT INSIDE, shows some wear outside, handmade flap holster, 2 extra magazines, $65.00. WANT—new barrel for .32 Colt automatic. B. E. Loudder, Box 836, Pecos, Texas.

COLT .38 POLICE SPECIAL, PERFECT INSIDE, slight holster wear, $50.00, embossed holster. Colt .44-40 (Bisley) Frontier, perfect inside, holster worn, embossed holster, $40.00. Floyd A. Burd, 804 Main, Canon City, Colorado.

REMINGTON MODEL 81, .300 CALIBER, Weaver 330 scope, fired less than 50 times. 25 rounds factory ammunition, 40 reloads. $150.00. Less scope, $115.00. J. L. Barber, 118 Hilborn Ave., Vallejo, California.

52 HEAVY BARREL, MARKSMAN STOCK, 77 front, sun shade, Vaver extension rear, scope blocks, trigger shoe, sheepskin case, perfect, $110.00 with 1,000 Palma Kleanbore. 52 Standard, target stock, 17A front, Marble rear, scope blocks, sheepskin case, perfect, $75.00 with 1,000 expert. B&L Prismatic 19.5 power, Al. Freeland stand with extension, $65.00. A. S. Cagle, 1814 Gregg Avenue, Louisville, Ky.

LUGER 7.65 or 30, Serial #2310 DWM, EXCELlent, 175 cartridges, $65.00. Webley & Scott #428, Officers' .380 caliber, automatic, elephant ivory grips, holster, 65 cartridges, $50.00. Machete with sheath, horn handle, $7.00. 1 pair True English dueling sabres, Wilkinson make, $50.00. 1 pair dagger foils 15" by Wilkinson, $10.00. 1 odd foil, $2.00. Well made yacht saluting cannon, brass breech loader, $25.00. 1 telescope and range finder off captured German gun, Goerz make, $20.00. Very large Gaucho spurs, anteater hide, bombelia and guard, hand branded throw ropes, tapir hide bridles, quirts, etc. Paraguian Indian bows, arrows, saddle blankets, hammocks, bead work, everything genuine. Stamp for list. F. W. James, 7725 Ardleigh, Chestnut Hill, Philadelphia, Penna.

COLT OFFICERS' MODEL .22 LR, 6" BARREL, Walnut checkered grip. Part of a matched set. New condition, $90.00. with 475 rounds fresh ammunition. Colt .32 Automatic, fine, with box cartridges, $32.50. Holster, $2.50. Colt .38 Army Special, 5", tenite grips, reblued, extra good, with patent holster, $57.50. Colt .25 Automatic with box cartridges, $31.50. .32-20 S&W, extra good condition with 50 rounds, $47.50. Morrison, 322½ South 6th St., Springfield, Illinois.

FOR SALE—SMITH & WESSON K-32, PERFECT condition, Magna grips, hand honed action, 500, 32 Winchester long sharp corner cartridges, $95.00. Jim Craton's, 221 Harrison, Davenport, Iowa.

Argus Eyes for Victory

Especially made by Argus to meet the critical needs of civilian Riflemen and Sportsmen. The 20-power prismatic Super Grade Spotting Scope has been given a coat of olive-drab war paint and is in extensive use by the Armed Forces for Observation purposes by Battery Commanders, Artillery Officers and Tank Units of the U. S. Army and Navy.

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FOR SALE—FINE SPORTER RIFLES, WESTLY Richards, Krag, Enfield, Ballard, Remington, Rider Mauser carbine, Krag issues 22 & 30-40. Lovell & Hornet, shells and tools, $40.00 to $125.00 shotguns. Model 31 Remington 16 ga. $65.00. Model 12 Winchester 16 ga. $75.00. Greener 10 ga. $50.00. 3 barrel 12 ga. 32-40, $75.00. Parker $60.00. Remington automatic $50.00. Remington Sportsman 20 ga. $85.00. Savage utility 30-30 & 25-20, 12, 16 & 20 ga. factory condition, $35.00 up. Colt Woodsman, $75.00. Shells for all. Many others. Lists 20¢. Geo. Brullesauer, 3957A Castleman, 10. St. Louis, Missouri.

WANTED—OLD BISLEY OR FRONTIER COLT, 6", 32-20 or 38-40 or old S&W, D.A. 44 or 45. Pay cash if priced right. Must be in good shooting condition and fair inside. C. A. Scott, 511 S. E. 69th Ave., Portland, 16, Ore.

FOR SALE—MODEL 52 HEAVY BARREL, marksman stock, Lyman 77 and 48 iron sights, 10 power Lyman Targetspot, sling, metal keeper, 6 extra clips, custom compartment wood case, 1000 rounds ammunition, 10X shooting coat, excellent, $200.00. Ray Holes, Grangeville, Idaho.

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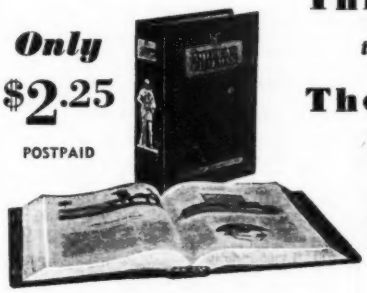

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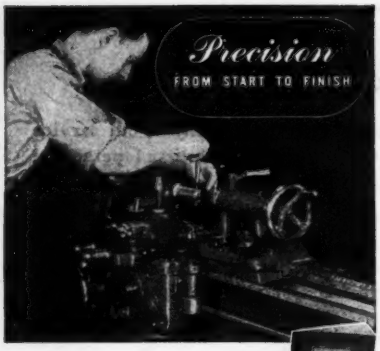

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REMINGTON MODEL 37, RANGEMASTER #00719, barrel and action excellent, finish slightly worn on comb, scope and iron sight blocks. Front sight only. A very consistent, tight grouping gun. $65.00. M. H. Slater, 30 Union St., Pontiac, Mich.

FOR SALE—WINCHESTER 12-12-30, RIBBED, full, chambered for 3", excellent, $75.00. Ithaca #4, 12-32, F-F, beavertail, ventilated rib, near perfect, 75 shells, $110.00. 70 Swift, Weaver 440, Redfield, 200 cartridges, perfect, $146.00. Want—Ithaca 5-E or better. Dr. Chas. C. Adams, Longview, Texas.

FOR SALE—SAVAGE HORNET, MODEL 23D, new, perfect, $42.50. Winchester Carbine, Model 94, 32 Special, three boxes Kleanbore, excellent, $50.00. Winchester Model 92, .44-40, half magazine, takedown, Marble peep sight, 70 shells, excellent, $50.00. Stamp please. Mark V. Kibbe, Ulysses, Pa.

BROWNING PIGEON GRADE, O&U, 12 GA. TST. imp. cyl. & mod. 100 shells, $165.00. Winchester 42, Skeet .410, extension slide, 100 shells, $65.00. Winchester 94 new .30-30, 80 shells, $69.00. All above excellent to perfect. 2 Colt Commandos .38, new, never fired, $39.50 each. G. A. Staniar, Short Hills, New Jersey.

WINCHESTER 21 TRAP GRADE, TWO SETS barrels, 30" mod., full, 26" skeet bores. S.S.T., beaver fore-end pistol grip stocks, custom oil finish, 14 x 1⅛ x 2⅜, finest adjustable recoil pad, inside perfect, otherwise first class, $235.00. Harry Hayden, 246 Standish Rd., Ridgewood, N. J.

FOR SALE—20 GAUGE WINCHESTER MODEL 12, 2¾" full, excellent, 2 boxes shells, $65.00. Marvin Carley, Brattleboro, Vermont.

FOR SALE—WINCHESTER 54 HORNET, REDfield micrometer, perfect in, excellent out, except bright spot on barrel, $80.00. Colt .25 auto, excellent, shells, holster, $30.00. S&W Terrier, perfect, $50.00. Stevens 22-410, $20.00. Others. Stamp. Ray Scholfield, Uncasville, Conn.

SELL—VERY GOOD .22 RANGER TARGET rifle, Lyman sights, with 9 inserts for front, Lyman 438 Field scope, some bluing worn on scope, $50.00. Bob Atkins, Westhope, N. Dak.

COLT OFFICERS' MODEL, 6 INCH BARREL, .22 Long Rifle, excellent, 500 Peters high velocity, Heiser holster, $75.00. Bausch & Lomb binoculars, central focusing, 6 x 30 optically perfect, finish good, leather case, $75.00. Elwell Davies, 1523 E. Johnson St., Philadelphia, Pa.

COLT'S NEW SERVICE .357 MAGNUM CALIber, 6 inch, blue, very good, with 5 boxes metal piercing shells, $65.00. Colt's Model 1917 Army 45 revolver, shoots 45 ACP shells with clip, gun and 100 shells, 8 clips, $50.00. Colt's Army Automatic 45 perfect, 100 shells, holster, $50.00. Smith & Wesson M&P 38 Special, 4 inch, blue, perfect, holster, box shells, $60.00. Carl F. Krausse, Hobart, Ind.

SPRINGFIELD, LIKE NEW, LOW NUMBER, $65.00. 75 Winchester with Winchester 8 scope, excellent, $70.00. Savage 250, 99G., 29S scope, very good, 15 rounds, $80.00. Winchester 38-55 lever action, poor but serviceable, 20 rounds, $22.50. .45 Colt Auto pistol, 50 rounds, very good, $45.00. .32 Colt auto, fair, $25.00. Mauser 25 Auto. Pistol, like new, 50 rounds, $32.50. Ernie Breyer, Fargo, North Dakota.

CAMP PERRY COLT, 10", EXCELLENT IN AND out, $50.00, no trade. Mrs. Frances Pfeiffer, 3804 S. 13th St., So. Arlington, Va.

REMINGTON 511A, EXCELLENT, WITH OVER 100 cartridges, $20.00. Gorman Kelly, Pinckney, Mich.

WOLLENSAK BINOCULARS, 8 X 30, V.G. TO excellent, glass shows little use on cover with case, $90.00. Woodsman 6½", excellent with holster, $60.00. M.O. H. Savage, 404 E. Tuse, Canton 2, Ohio.

WINCHESTER 54 HORNET, EXCELLENT EXcept floorplate bluing worn, 575 factory Hornets, 438 Lyman scope, micrometer mount. Monte Carlo cheekrest, sling, $125.00. Weaver 29S, mount T1 new, $16.00. Model 37 Ithaca, 16 gauge, barrel 28 inches, modified, perfect, $60.00. Member, Chas. Weston, 1370 Seminole Drive, Greensboro, North Carolina.

FOR SALE—1917 ENFIELD BY WINCHESTER, very good, $45.00. J. R. Callum, 215 Colley Ave., Norfolk, Va.

WINCHESTER 54, .30-'06, LYMAN 48, GOLD bead, 20" barrel, very good to excellent, sling, 60 Kleanbores, 120, 41 and 42 issue cartridges, $65.00. Savage 99, 250-3000 shot 40 rounds new condition, 140 Kleanbores, $90.00. Peter J. Ellis, 4717-12th St., N. E., Washington 17, D. C.

FOR SALE—BAUSCH & LOMB 7 X 35 BINOCular, individual focusing, leather case, strap, excellent, $125. Sedgley Springfield Sporter, .30-'06, Lyman 48, front, gold bead, inside very good, otherwise excellent, $100.00. Joseph Stashak, 29 W. Somerset Street, Raritan, New Jersey.

300 HOLLAND, ENFIELD ACTION ALTERED to cock on raising bolt. Honed trigger, 29S scope, post reticule, B Mounts. Bishop stock, Tenite tips on fore-end and pistol grip. Sling, Pacific dies, 35 loaded cartridges, 60 new primed cases, 49 decapped resized cases. This outfit is perfect, $185.00. Want —.30-'06 non-mercuric primers. Hornet ammo. and cases. F. DeLaGrange, 919 West Yosemite Ave., Madera, Calif.

S&W MAGNUM .357, 8¾ BARREL, EXCELLENT, $110.00. S&W .44 Special, 6", very good, 200 ctgs., $70.00. S&W 44 Russian Target 8", fair, $40.00. S&W 38 double action revolver, 6", fair, $30.00. .351 Savage Automatic, good, $35.00. John M. Love, 146 Seymour St., Watertown, N. Y.

FOR SALE—WINCHESTER M42, 410, 26", FULL choke, 7½ boxes 3" shells, perfect, $75.00. Stacy Doble, Fergus Falls, Minn.

FOR SALE — COLT BISLEY .32-20 ON .45 frame, very good, 7" barrel, blue, target sights, holster, and 50 shells, $55.00. Peter Cromos, 738 N. 29th St., Milwaukee 8, Wisconsin.

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FOR SALE—HENSODLT KLEIN, DIALYT 2¾ X scope, brand new, factory box and wrapping, $75.00. Griffin & Howe, .350 Magnum Mauser, new condition, $250.00. George Pace, 3512 Cameron Mills Road, Alexandria, Virginia.

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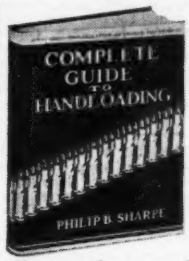

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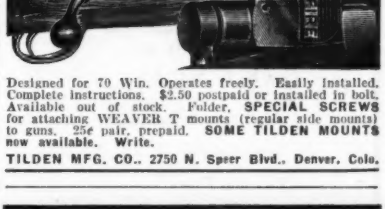

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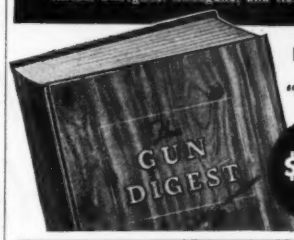

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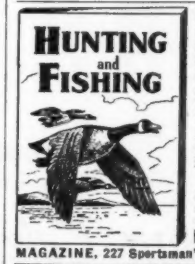

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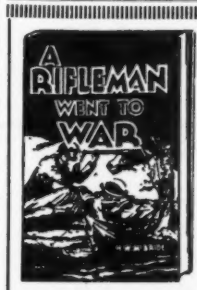

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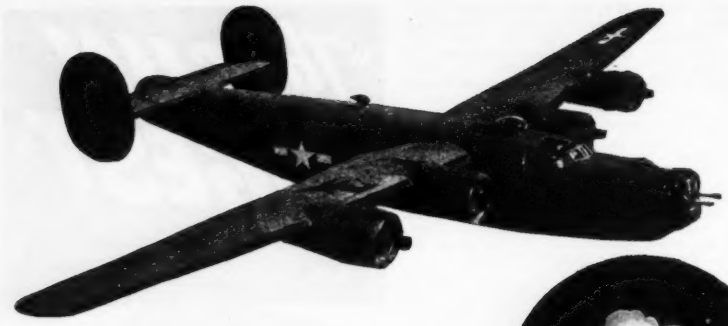

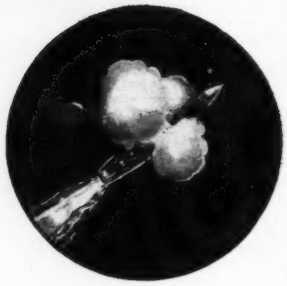

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SELL OR TRADE

HI-STANDARD MODEL "C" 4½" BARREL, inside excellent, outside very good, 500 cartridges, extra clip, $40.00. Wanted Henshaw trigger shoe for Match Target Woodsman, trunk for Remington 37 Target Rifle. Walter Schneider, Saranac, Michigan.

SELL OR TRADE—WINCHESTER 35 SELF Loading Model 1905, $65.00. Want 22 Colt Automatic Pistol, Colt or S&W Revolver. Horace Gingles, Jerseytown, Pa.

REMINGTON M-17, 20 GA. 28" FULL, EXcellent $60.00. Colt N.S. 38 Sp. 6" blue, $60.00. Want Winchester Hi-Side, also heavy .22 caliber barrel. H. H. Gaffin, 5548 Carrollton, Indianapolis, Indiana.

SALE OR TRADE—LATE WINCHESTER 25-35 Carbine, fair out, excellent in, Redhead case, box soft points, $55.00. 52 Standard, Speedlock, Pacific Micrometer Rear, Redfield, #63 front, strap, cartridge block, stock slightly modified, excellent, $52.50. Want—Large and small rifle primers. Woods Three Star Robe. J. W. Latham, 744 Chipeta, Grand Junction, Colorado.

WILL SELL, BULL PUP, MAGNUM 22 HI-Power 1-1/16"-30" barrel by Lovell, Clark Krag Speed Action, Bishop stock, Fecker blocks, A-5 Winchester scope, loading tools, new cases, 400 primers, 400 bullets, accurate, very good, $100.00. Will trade 250, 80 grain jacketed 32 caliber bullets for 250 jacketed 60 grain, 25 caliber bullets. Want small rifle primers. Alan Clark, Hat Creek, Wyo.

FOR SALE OR TRADE—30-06 Springfield by Griffin & Howe, 48 rear, ramp front, Zielklein, D&H mount, engraved buttplate, Q.D. sling, very good, $225.00. A. Jackson, R. D. #3, Poughkeepsie, New York.

PEDIGREE POINTER PUPS WHELPED SEPT. 26, '43, Ch. Spunky Creek Boy & Ch. Village Boy, blood lines, $50.00 each or trade for Modern Guns. Harold Hemmelgarn, R. R. #1, #105, Maria Stein, Ohio. 8-44

FOR SALE—8 X 35 HENSOLDT BINOCULARS, $100.00, Central focusing. Buck & Doe Antelope heads, $70.00 or V. G. 30-06 rifle. 12 gauge double barrel hammer v.g. $12.50, cartridges 303, 32-40 35 Remington, 7.62 R., Want '06 rifle, 22 auto. Colts cartridges, 22 Hi-Power, 30-30, 44-40, 32-20. L. Hoefer, Ranch Creek, Montana.

MODEL 71 DELUXE 348, SHEEPSKIN CASE, shell belt, factory condition, $100.00. Colt Woodsman 6½ in., Heiser holster; one hundred rounds long rifles, inside perfect, blue holster worn. $50.00. Would consider trade on Model 70, 270, Winchester. Arthur Krick, Box 131, Monroeville, Ohio.

SALE OR TRADE—WESTERN FIELD PUMP 12-gauge, full, excellent in and out, box shells, case, $47.50. Same 16-gauge, full, excellent in, very good out, box shells, case, $37.50. Want .22 auto rifle, 75 Sporter, 45 S&W 1917, .22 and 12-gauge ammunition. Frank Carter, Box 72, Briggsdale, Ohio.

16-GAUGE SMITH, 28" M&F, EXCELLENT, $75.00. 16-gauge A. Fox, 32" F&F, very good, $80.00. Want—12 double, Winchester Hornet or .257 or? L. C. Rodgers, 916 N. 4th St., Phoenix, Arizona.

SALE—WINCHESTER 61 LONG RIFLE ONLY, custom stock and forearm, cheekrest, Weaver 29S scope with T Mount, excellent in, good out, $65.00. Stevens 44½ action, 22 caliber, barrel poor, extra center fire block and trigger guard, $22.50. Hi-Wall Musket, flat spring, barrel poor, $18.50, will trade. Want perfect 45 Frontier Blue 4¾ or 5½. Examination privilege. A. J. Bennett, 1210 Central Avenue, Louisville, 8, Kentucky.

WINCHESTER MODEL 12—20 GA. PERFECT, $65.00. Winchester Model 1895 30-40 Carbine, good, $40.00. Le Roy Goodwin, 300 Lamar, Amarillo, Texas.

SALE OR TRADE—ONE 38 COLT ARMY SPEcial, 6 inch. Outside reblued, mechanically good, some pits but accurate. Lower corner broken from grip. $37.50. One Colt new Police 32, 6 inch, reblued out, fair in, $22.00. One Marlin Model 92, 32 caliber rifle, finish worn out, some rust spots in, $17.50. One box shells with each gun. Want large pistol primers, excellent 52 standard, S&W Kit Gun. Money back if not satisfied. Marion Reed, Cassoday, Kansas.

SELL OR TRADE—HENSOLDT UNIVERSAL Dialyt 6x30, excellent $100.00 or trade for Model 70 .257 or 250-3000 or equivalent. Daniel Haloukas, 4445 Carpenter Avenue, Bronx, N. Y.

SALE OR TRADE—.380 REMINGTON PISTOL, excellent, shells, $32.00. .38 Colt D.A. Swing-out cylinder, 3" barrel, beautifully reblued, excellent otherwise, with 40 smokeless .38 long cartridges, $30.00. Weaver T 7 Mount new, $2.25. Wanted—Barrel for 44-40 Winchester 92 (used); pistols, revolvers any condition. Gerald Windau, 627 Foster, Fostoria, Ohio.

WANTED—LATE REMINGTON OR BROWNING Automatic 12, modified 28 raised rib, perfect. Sell 38 Army Special, heavy Colt, perfect, shot twelve times, holster, Pachmayr grips, 50 shells, $50.00. Charles B. Myers, R.D. #2, Steubenville, Ohio.

SALE OR TRADE—MODEL "B" HI-STANDARD 6¾, 3 clips, perfect, $50.00. 45 Automatic, Commercial Model, perfect, 500 rounds ammunition, $65.00. Model 63 Winchester, perfect, $50.00. Want—K-22, K-38, Frontier .22 or .38, .22/32 Target, .22-45 Conversion Unit, .22 ammunition or what have you? A. E. Cannon, 114 Church Street, Hertford, North Carolina.

SAVAGE 19, HEAVY BARREL, 17A, SAVAGE rear, perfect, $52.00. Want—52 H.B., B&L N.R.A. or Argus Spotter. Joseph Boska, 198 Fourth Street, Passaic, New Jersey.

MULTILITH OFFSET PRESS—MODEL 1000, in excellent condition. Motor driven, automatic feed, prints 9 x 13½ anything written, typewritten, printed or photographed, 4000 per hour. New $650.00. Sell for $300.00 or trade at fair prices for large caliber rifles or revolvers in excellent condition or power tools. Life Member. Dr. G. A. Vannette, Hart, Michigan.

REMINGTON 10 PUMP, 12 GAUGE, EXCELlent, just refinished by Remington, $60.00 cash or trade for 52 Winchester or 37 Remington. L. M. Holmes, Ashland, Ohio.

SPRINGFIELD-LOVELL BY GRIFFIN & HOWE, 48, restocked, fired less than 100 times, excellent. $110.00. Cases, components. Want trade on .270, 257, Bee, or shotgun. H. W. Persons, 1130 Christine, Anniston, Ala.

SELL—FACTORY NEW 7 X 42 HENSOLDT light weight monocular, beautiful leather case, $100.00. Excellent 6 x 30 B&L monocular, $45.00. Wanted excellent M-12 skeet. Wallie Burnham, 2154 Pearl, Seattle, Washington.

MARLIN O&U DELUXE, F&M 16 GA., PERfect, $65.00. Wanted Lyman Alaskan. Wayne Partee, R. #1, Bryan, Ohio.

SALE OR TRADE—ARGUS A3, F:4, LEATHER case, flash synchronizer, film, new condition $40.00. Want—Enfield as issued, B&M powder measure. Roy R. Murphy, R. R. #1, Woodburn, Indiana.

SELL OR TRADE—ITHACA MODEL 37T, 30" full, sheepskin case, ventilated, Ivory beads, circassion beavertail & Monte Carlo, beautiful checkering, recoil pad, excellent out, perfect in. Sell $110.00. Trade for .300, 70 Magnum & shells, Lt. Earl G. Widen, Box 625, RAAF, Roswell, New Mexico.

WANT GUN BOOKS AND BALLISTIC BOOKS, especially Crantz, Hodsock Tables, etc. Also 3" piece new .25 barrel. Will buy the above or trade miscellaneous cartridges or components. Sell or Trade Richter drawing instruments, $40.00; Deraisme 8 x 25 (S&A) binoculars, $35.00. Paul Machovina, 1196 West Sixth Avenue, Columbus 8, Ohio.

SELL OR TRADE—52 H. B. WINCHESTER, Standard stock, excellent, $70.00. 45 Colts Govt., very good, $50.00. Want—B&L Zeiss binoculars, Stanley Wentling, Palmyra, Pa.

FOR SALE—CATALOG #23 DESCRIBING OVER 1500 bargains 25¢. Modern and antique firearms, accessories, war relics, binoculars. 6x30 B&L $70.00. Brand new .45-70 Springfields, $18.50. Plenty ammunition, $2.50. Springfield 1903, $60.00. Mauser 1898, $32.00. Krag Sporter, $60.00. 303 Lee Enfield Sporter, $70.00. .22 L.R. Savage Sporter, 23-A, $32.00. Excellent .45 S&W 1917, $62.00. .45 auto, $62.00. Luger, $62.00. 7.63 Police Mauser, $68.00. Excellent K-22, $76.00. Excellent .22 S&W Straightline, $54.00. Many Frontiers, Autos, C&B revolvers, muzzle loaders, Kentuckies. New Trench daggers, $3.50. John Smith, Rambler Ave., Runnemede, New Jersey.

TWO A45 COLT AUTOMATICS, LATE COMMERcial, 2 clips, 20 round each, 1 perfect, $65.00. 1 slightly holster worn, $58.00. Ira J. Moody, McGregor, Iowa.

FOR SALE—SPRINGFIELD D.C.M. SPORTER, never fired, $100.00, stamp for details. R. E. Strickland, Brown-Marx Building, Birmingham, Alabama.

FOR SALE—REMINGTON ROLLING BLOCK action, good, $8.50. 10X Targetspot, excellent, $75.00. Winchester Hi-Wall action, double set triggers, good, $25.00. Selected Springfield Sporter barrel, new, $17.50. Custom .250-3000 light weight hunting rifle, ideal for lady, 1942 Mauser action, M70 barrel and sights, 6¾ pounds, perfect, $110.00. Earl Waymire, 1101 So. West St., Indianapolis, Ind.

WINCHESTER 75 TARGET, 8X WINCHESTER scope, excellent, $55.00. Ideal bullet sizer and lubricator .358, good, $10.00. .38-40 barrel, 4¾", Colt Bisley, fair, $3.50. 10 Remington 50-70 Rolling-block rifles, action good, barrels poor, $6.50 each. 3 Springfields, .45-70 fair, $7.50 each. 400 Krag cases, 3½¢ each. Marble #2 axe, new, $3.00. Crosman .22 S.S. rifle, pellets, fair, $12.00. 3 Springfield 1903 stocks, $1.00 each. 12-gauge L. C. Smith, $150.00, Circassian stock and engraving. Money orders only. Claude R. Jeffries, 137 Nevin St., Lancaster, Pa.

FOR SALE—GRIFFIN & HOWE DELUXE Mauser, 7mm, 22" barrel, Zeiss-Ziel-Klein 2¼X scope in G&H mount. Lyman 48, British leaves in short rib. Elaborately engraved action, floor-plate, trigger guard, part of barrel, barrel band, Lyman 48, G&H scope mount and bolt handle. Initials in gold relief in floor-plate. New condition. $475.00. George Pace, 3512 Cameron Mills Road, Alexandria, Virginia.

FOR SALE—SPRINGFIELD SPORTER HIGH number, custom stock, perfect, fired only 31 shots, 300 rounds 37 ammunition, $125.00. J. E. Mourne, 1101 West Cossitt Ave., LaGrange, Illinois.

FOR SALE—COMBINATION GOVERNMENT ISsue .45 auto, remodeled with arched housing short trigger, etc. National Match barrel, patridge sights, 22 conversion unit all fitted and honed by Berdon, excellent action, 300, 22 and 200, 45 for $150.00. 500 F.A. .30-'06 35 and 37 issue in lots of 100 or more 7½¢ each. 455 Webley highly engraved, nickel, ivory grips, very good outside slight pits inside, almost box cartridge, $35.00. Zeiss 8x40 binoculars individual eye focus excellent optics, slight wear outside, case, $150.00. 20x54 DeMurier binoculars, very good, case, $70.00. Milos chronograph watch, $40.00. Want Super D Graflex camera, 4x5 photo enlarger or what have you. A. F. Roddy, Hamilton National Bank Building, Chattanooga, Tennessee.

FOR SALE—410 GAUGE, L.C.SMITH FIELD grade, full and modified, unfired, 10 boxes shells, $125.00. F. W. Poulson, 19101 Shaker Blvd., Shaker Heights, Ohio.

FOR SALE—1 MODEL 21 WINCHESTER, 12 gauge, perfect, 2 boxes shells, $95.00. 1 Stevens Springfield, 20-gauge, double barrel, perfect, 2 boxes shells, $35.00. 1 Model 64, 219 Winchester Zipper, perfect, 120 shells, $85.00. 1 Smith & Wesson .38 Special, new, 4" barrel, $60.00. 1 .380 Walther Auto. Model PPK, perfect, 85 shells, $55.00. 1 Enfield Sporter .30-'06, barrel and action excellent, stock good, 100 shells, $65.00. 1 Baker 12-gauge double barrel, good, 1 box shells, $20.00. 1 Johnson 5 Horse Alternate Twin Outboard Motor, very good, $100.00. 1 Acme 12' Plywood Vee Bottom boat. This boat only used one week, $65.00. 1, 12 x 14 wall tent. Green water proof, new, $60.00. Member Otis Wasson, 606 S. 13th St., Richmond, Indiana.

FOR SALE—WINCHESTER MODEL 42, 410 gauge shotgun, matted rib barrel, full choke, solid leather case, $80.00. Perfect Remington Model 11, 20-gauge automatic, matted rib barrel, full choke, excellent leather case, 2 boxes shells, $90.00. Winchester Model 12, full choke, 12-gauge, perfect in, excellent out, $45.00. Perfect 30 caliber D.W.M. Luger, $150.00. Lyman 48F sight with Merit disc. $8.00. 9mm Luger drum, $6.00. Louis Luffy, Professional Bldg., Phoenix, Arizona.

OFFICIAL POLICE REVOLVER, 6 IN. BARREL, weight 34 ounces, excellent, $58.00. Spencer rifle, magazine in stock, condition fair, caliber .56-56, $20.00. 100 U.S.A. Army caps, $2.00. F. W. Daniels, Box 453, Charlestown, N. H.

FOR SALE — REMINGTON AUTOLOADING rifle, 30 caliber, Hensoldt binoculars, 12 x 30 (Telzwoelf). Both almost like new, $60.00 each. Otto Atwood, Hubbard Lake, Michigan.

FOR SALE—COLT'S POCKET MODEL AUTOmatic, reconditioned by Colts, like new except small blue wear on end of slide, 3 magazines, 300 Super cartridges, $50.00. Money back guarantee. Want—22, 32 and 380 Walther P.P., excellent, pay fair price. Dr. W. H. Grigsby, Hartford, Ark.

1 SPRINGFIELD .30-'06 TYPE C STOCK, STAR gauge barrel, bore excellent, Lyman 48 scope, blocks, 100 rounds, $75.00. 1 Winchester 52B, H.B., excellent bore, Marksman stock, Vaver 35 Mielt rear, Vaver front, sheepskin case, 250 L.R., $80.00. 1, 10X Lyman Targetspot scope, $55.00. All C.O.D. with examination privileges. Anthony Erman, 124 E. 5th, Okmulgee, Okla.

FOR SALE—COLT .25 AUTOMATIC, CARtridges, $32.50. Dynamic welder, complete accessories, $22.50. Wanted—Cheap .22-.32-.38 revolver, cartridges. Bill Dudley, Elizabeth City, North Carolina.

OFFICERS' MODEL COLT 22, PERFECT, NEW $20.00 holster, 1000 rounds ammunition, $100.00. 12 gauge Ithaca pump, excellent, 50 shells, $67.50. Wanted Model 70, 300 Magnum. Ray Holes, Grangeville, Idaho.

FOR SALE—1500 F.A. PRIMERS, $22.50. ITHACA 12-gauge field grade double FM, good, 2 boxes shells, $50.00. 120 rounds 1938 issue, 7¢ each. 200 rounds 1918, each 4¢. 52 Standard barrel only, excellent, $20.00. Vaver 35 Mielt, 36FS, and 35 EBB for HB 52, $26.00. 500, .30-'06 cases fired once, 2¢ each. Ivan Olson, 710 N. 7th., Manitowoc, Wis.

FOR SALE—REMINGTON 37 HEAVY BARREL, excellent, carton of cartridges, $80.00. Springfield Sporter, bolt sight and .330 Weaver, excellent, over 200 cartridges, $150.00. Trade 1917 S&W, excellent, 125 cartridges for excellent woodchuck rifle and cartridges. Edward Sweet, Jordan, N. Y.

FOR SALE—MODEL B, POTTER ELECTRIC furnace, new elements, $16.50. Want Ideal No. 3 tool, cal., 218 Bee, cases, Pacific powder measure, N. A. Brown, Box 224, Ordnance, Oregon.

.270 WINCHESTER MODEL 70, LYMAN 48, INside excellent, outside very good, 52 cartridges, 140 cases, .270 Ideal dies, $105.00 cash. Trade—554 expanding bullets .270 caliber for same number 150 and 180 gr. .30 caliber expanding bullets. O. W. Beauchamp, DeWitt, Iowa.

Wild Turkey

"Here in West Virginia where we still hunt the native wild turkey, the terrain is rough and rugged, and our chances at game are often taken from one hill to another.

"My fondest recollections date back more than thirty years to the time I first came into possession of a Marlin rifle—a 32-20. Then followed a 25-20, a 30-30, and a Marlin lever action 22.

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Thos. E. Knapp,
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Marlin thanks Mr. Knapp and the thousands of other sportsmen who have expressed appreciation for the accuracy and dependability of Marlin Guns. We are concentrating on war production until the war is won. After victory, however, Marlin will introduce new models and many improvements in the well-known line of Marlin guns.

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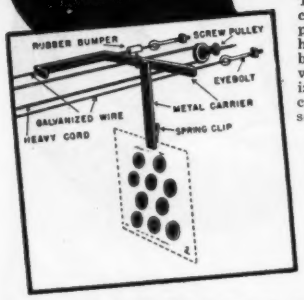

TWO COMPLETE SETS consisting of: eye bolts, nuts, pulleys, rubber stops, screw hooks, 16" sheave wheel, bearing plates, set screws, washers, wing nuts, galvanized wire, braided cord, crank shaft, and round head screws.

ONLY $5 PER PAIR

Military sliding type target trolleys for 50 foot indoor range. Ready to install. Same carriers as formerly issued to clubs by Director of Civilian Marksmanship. Packed two to the crate and priced $5 f.o.b. Washington.

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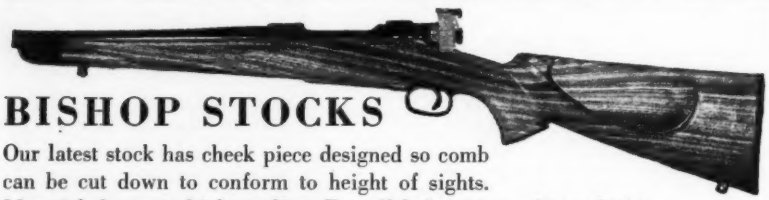

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Our latest stock has cheek piece designed so comb can be cut down to conform to height of sights.
Material the same high quality. For all bolt actions. Price $5.00.
Mannlicher type $7.50. Shipping weight of stock, 4 pounds. Catalog ready.

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.223 SISK 50 GR. LOVELL BULLETS, $5.50 PER hundred. Model 70, 220 Swift with 440 scope, Lee Dot, Stith mounts, Pacific dies, cartridges, cases, bullets & primers, $250.00. Model 70, 7mm. with 330 scope and dot, perfect, $175.00. Model 12 pump shotgun 12 gauge solid rib, beavertail fore-end, Cutts compensator, pad, a beauty, perfect, $125.00. Hornet primers $1.50 per hundred. Mossberg Spotting scope and stand $31.00, perfect. Hornet cases 5¢, Hornet bullets 5¢, Carl Zeiss 8x30 I.F. Lightweight, $160.00, perfect. Want—720 or 30S Remington, high grade double. Miller Magnum and Zeiss scopes. Louis Bairo, 711 Professional Bldg., Phoenix, Ariz.

KRAG SPORTER, RECEIVER REAR, GOOD, NO safety, $30.00. L. C. Smith double, F&M 12, 30, action tight, barrels pitted $35.00. Model 12, 12, 30, raised rib, fair, $45.00. Model 12, 12, 30 excellent, $65.00. 1917 Service 45, stag grips, finish rough, very good, $45.00. 7x50 Zeiss binoculars, saddle leather case, glasses & case worn from hunting. Perfect for big game hunting, wonderful optics, $145.00. Any of the above for Model 42-.410 skeet model, high grade 20 ga, double or pump. Winchester 12,12 custom trap, ventilated rib. B&L 7x35 binoculars. Write for details. W. H. Emery, R.R.#2, Box 1194, Bremerton, Washington.

FOR SALE—TITHRINGTON RELINED 32-40 Stevens 44, engraved action, DS triggers, Scheutzen stock, excellent, $75.00. B.S.A. #2, 22 caliber Air Rifle, excellent with 2000 pellets, $45.00. B.S.A. 22 LR Martini Target Rifle with M-Goss Receiver rear, good, with deluxe wood for restocking, $80.00. Wanted—WANTED—Wanted. 10X, 12X, 15X Lyman Super singly or with outfit. Winchester 70, 270, 220 Swift in any grade, or outfit. Trade—22 LR's, 220, or 16 gauge 6's for 250-3000, 270, 257 factory ammunition or pay cash. L. E. Elwood, 12304 Wyoming Ave., Detroit 4, Michigan.

SELL OR TRADE—D.W.M. LUGER 7.65, 3⅝" neglible finish wear, otherwise excellent, holster, 15 cartridges, $50.00. Trade even for 4½" Woodsman, S&W 22-32 kit or Colt .22 Banker's, excellent. E. C. Quattlebaum, Tyler, Texas.

BEAUTIFUL NEW STOCK PEERLESS TYPE, detachable swivels, Nonshoc pad, ebony tip, remodeled Mauser 98 to 300 Sa., D.S. triggers, unblued, no barrel, sell for cost $65.00 or trade for Lovell repeater, cash for your components. Stamp please. Earle S. Lea, 2020½ So. Sutter, Stockton, Calif.

SELL OR TRADE—PER. 30-06 SPORTER, $115.00. 6" Colt 38, $65.00. Want 6.5 Mannlicher & ammunition. W. J. Staudte, 5238 Milwaukee Ave., Chicago, 30, Illinois.

SELL OR TRADE—38 SPECIAL OFFICERS' model, 6" target, holster, 50 rounds, excellent, $70.00. 38 Special Smith & Wesson, 6" target, reblued, excellent, $55.00. 7.65 Luger, German made holster containing cleaning rod and suicide cartridge in flap, 150 rounds, excellent, $70.00. $120.00 S.S. Stewart Tenor Banjo, case, good used condition. Trade for D or E Hi-Standard or Model 40. M. G. Snider, Belpre, Ohio.

HI-STANDARD "E" 6¾, PERFECT, NEW OAK carrying case, 200 L.R., $75.00. Want—Perfect Automatic, 12 or 20, ventilated, 28". Manton Hebner, Washington, Iowa.

SALE OR TRADE—52 SLOWLOCK, EXCELLENT, $35.00. Savage 303, 22" Oct. Barrel. v.g. 40 shells, $45.00. Ithaca, 16 ga. 28" F&M, excellent, $55.00. Want—Few 44-40'S (regular), have 150, 44 Russian kleanbore. F. C. Culler, Alliance, Ohio.

SALE OR TRADE—PATEK-PHILIPPE POCKET Watch, 18 jewel movement, adjusted heat, cold and isochronism and five positions, 18K solid gold case, open face with silvered dial and applied gold figures, thin model. This watch cost $375.00 cash in July, 1943 and is in perfect condition except for slight pocket wear of case, and is as nearly perfect a timepiece as you are likely to find. Only reason for disposing of it is that I have another watch and do not need it. Will sell for $325.00; accept a good Hornet outfit or Colt Officers' Model Target 22 or S&W K22 in part payment or would consider Colt 38 Shooting Master Target Model. Will ship with inspection privilege upon receipt of a reasonable deposit. R. I. Gibbs, 70½ Edgewood Ave., N. E. Atlanta, Georgia.

H&R EUREKA, 1000 ROUNDS, HOLSTER, PERfect, $69.50. S&W 357 Magnum, box shells, excellent, $124.50. Colt Detective Special, holster, excellent, $57.50. Colt 25 Automatic, pearl grips, box shells, excellent, $32.50. Hi-Standard Model "C", excellent, $35.00. Remington Sportsman 12x32 full with extra 28" Imp. Cyl., ribbed barrel, excellent, $100.00. B&L binoculars 7x35 C.F. excellent, $124.50. Want—Cash or trade, antique Colts. Andrew Spina, 514 Main, Towanda, Penna.

FOR SALE—2500 VICTOR STEEL TRAPS, LONG spring, factory sealed cases number 1½ dozen $4.50. #1, dozen, $3.00. Winchester Model 54 2R Lovel rifle and tools, 379 loaded shells, 1000 primers, four lbs, powder, 120 soft point bullets as outfit only $10.00. New Service Colts .45, barrel 7½ inch, 80% factory perfect $45.00 handloaded ammunition cheap with gun. .32 Auto Colts 98% factory perfect, $27.00. Wanted—10 gauge Magnum double shotgun. Small Evenrude or Johnson outboard motors. Trade—½ case 20 gauge 3 inch High Speed shells for 10 gauge Magnum load. ½ case 12 gauge Magnum shells for 10 gauge Magnum duck loads. Steel traps for shotgun motors shells. Ed. Herbolsheimer, Box 865, Bureau, Illinois.

H&R SPORTSMAN S.A. EXCELLENT, $45.00. I.J. Hercules 12-32" F&F, v.g. plus, $35.00. Lefever Nitro Special, 12-30" F&M, v.g. $30.00. Lyman 5A excellent, ¼" clicks, $35.00. Cash or trade for 22-32, M70/.250. Melvin Conrad, Box 703, Indiana, Pa.

SCOTT 12 ANSON & DEELEY ACTION, AUTO ejectors, 27" barrels, $200.00 or exchange for 20 equal value. Dr. J. S. Goodwin, Concord, Mass.

FOR SALE—NEW 330 WEAVER SCOPE T mount, $31.60. B mounts, add $4.50. Wanted—Model 70, 22 Hornet, excellent. Percy Hoffman, 36 So. Fourth St., Harrisburg, Pa.

FOR SALE—MOSSBERG 22 LR, BOLT, CLIP, 4X scope $20.00. Ranger 22 LR, open sights, automatic, 5 10-shot clips, excellent, stock scratched, $20.00. Mossberg 22 LR, bolt, Tubular, open sights, $20.00. Hi-Standard E, 6¾", perfect, extra clip, original box $65.00. Wanted—Colt SA 5", 22LR. S&W or Colt 38 Special, good, very good. Savage solid 99. 250-3000. Shells, scope, cheap 410 single or handygun. Life Member. John W. Hornor, Jr., Station Hospital, Fort Devens, Mass.

WINCHESTER 75 SPORTER, SLING, WEAVER scope, Stith mounts, all new, 500 kleanbore, $75.00. D.W.M. Luger, 9mm. 6" 50 kleanbore, sheepskin holster all excellent $60.00. S&W .44 Russian, 50 kleanbore good, $30.00. Want—Colts S.A. or Bisley .357 Magnum or .22 conversion excellent condition or M.O. Ed. Pickell, 20440 Gardendale, Detroit, Michigan.

SALE OR TRADE—ZEISS 8x10 C.F. BINOCulars with case, excellent $115.00. Eastman 16mm. Model B Cine Kodak, F:1.9 with case and Model B Kodascope (self threading projector) with walnut and leather cases, all in excellent condition, $135.00. Cash or will trade for high grade, 30-06 or 270 rifle, or shotgun. Walter L. Bush, 249 Hawthorne Rd., Hopkins, Minnesota.

SELL OR TRADE—SAVAGE M720 AUTOMATIC 16x28 full good $70.00, Ithaca Featherweight slide 20x28, full, excellent, $70.00, Winchester M24 double 20x26 M/F, excellent, $38.50, Lefever Nitro Special Double 410x26, full, leather sling, perfect, $40.00, Winchester M55, 30-30, factory reconditioned, excellent, $60.00, Remington M14½ carbine, 35 Remington, Lyman Tang, good, $50.00, Winchester M1910SL, 401 caliber factory reconditioned, very good, $75.00, Stevens Ranger Target 22LR, Bolt clip repeater, leather sling, excellent, $40.00, Colt SAA 45 Colt, 7½ inch, very good, $45.00, Colt Camp Perry 22LR SS, very good, $40.00, S&W M&P 38 Special minor roughness, bore otherwise good, custom reblued, $42.50, S&W M&P 32-20, 4 inch, blued, very good, $45.00. Colt Shooting Master, .357 Magnum, 6 inch, holster, perfect, $125.00, Colt Pocket Model 32 ACP, custom reblued, very good, $30.00. Many others. List. Stamp. Ed Howe, Coopers Mills, Maine.

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SELL OR TRADE—37 REMINGTON, EXCELlent, $75.00, 141 Remington, 30 caliber, 6 boxes ammunition, tang sight, perfect, $95.00. Fecker 6x¾", ¼ click, perfect, $50.00. Fecker 8x¾", plain mounts, old type, very good, $30.00. 30 Luger, 100 cartridges, very good, holster, $55.00. Want—Model 70, Savage 99, Noske type A, Pacific dies for 250-3000, small Johnson outboard motor. Clyde Gray, Prairie Du Sac, Wisconsin.

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MOSSBERG 22, MODEL-40, LYMAN 422 SCOPE, v. good, $35.00. Ranger 22 pump, v. good, $35.00. Colt .45 Automatic, good, $50.00. Colt .32 Automatic, good, $35.00. Stamp for list of others. Want—Hi-Standard, S&W 357 Magnum, (Money Order Please). Donald Austin, North Olmsted, Ohio.

PARKER BROS. V.H.E. 20, 28" M&F, PERFECT $150.00. Parker Bros, P.H.E. 10, 30" F&F, excellent $150.00. Winchester 67, .22 Shot, (Miniature) perfect, $12.50, Some ammunition available. Want—32 ga. (14mm) shotgun, Want—Target stock for 52. Want—Round ball mould or balls for .44. Russ H. Dean, E3011 Wellesley, Spokane, Washington.

FOR SALE OR TRADE—38-44 OUTDOORSMAN 6½" barrel, excellent, $80.00. Colt O.M.T. 38 Special, excellent to new, $75.00. Colt O.P. 4", 38 Special, new, $57.50. Colt Government Model 45 Automatic, #C88806, Web Service Belt, holster, clip case, two extra clips, gun smoothed for target work, excellent, $75.00. S&W, M&P 5", 32 WCF, excellent, $45.00. S&W, M&P 4" 38 Special, very good in, holster wear, out, $42.50. Colt O.P. 4", 38 Special very good in, holster wear, out, $42.50. Colt P.P. 4", 38 S&W, very good in, holster wear, out, with holster, $35.00. Mauser 25 Automatic excellent, $25.00. Ortgies 32 Automatic excellent, $32.50. Some ammunition for all above guns. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

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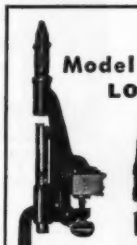

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WANTED

WANTED—PERFECT TO VERY GOOD WINchester 70, .375 Magnum or .348 with about 100 factory cartridges or lesser amount with reloading tool, components. Give details, price, time you will hold. Paul Schmook, Scotia, California.

WANTED—.22 CALIBER RELINER FOR 45-70 barrel and or .22 caliber heavy barrel. R. C. Hoard 2416 No. Mesa Avenue, El Paso, Texas.

WANTED—OUTBOARD MOTOR 3 HP. OR LESS. Must be in good condition. State price. H. T. Swenson, Columbus, N. Dak.

WANTED—TELESCOPIC TRANSIT TRIPOD, Micrometer 2"-3", draftsman's railroad pen, head for cylinder hone to work at 2.393". Lt. Col. Mark A. Cooper, Box 68, Rome, Georgia.

WANTED—32-20 REMINGTON MODEL 25, 32-20, 100 gr. hi-velocity cartridges, primers for 32-70 and 250-3000. C. B. Wilmot, Rushford, N. Y.

ARMY OFFICER WANTS GOOD .45 AUTOMATIC with arched housing at sensible price. Capt. Casper Beimfohr, 1st Regt. C.R.T.C., Fort Riley, Kansas.

WANTED—.44-.45 FRONTIER COLTS OR REMington. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

WANTED—MODEL 52, ALSO MODEL 70 OR other 30-06 with scope and ammunition. Hawn, Box 52, Alhambra, California. 5-44

WANTED—COMPLETE ACTION FOR REMINGton M10 Repeater 12 gauge shotgun stock and barrel immaterial. Dies .300 Savage for Pacific or complete tool. Some .30 caliber soft point bullets. Walter Mundt, 2016 7th Ave., North, Great Falls, Montana.

WANTED—COLT WOODSMAN, 4½" BARREL and hi-speed main spring housing in condition fair or better. Comdr. C. E. Coffin, Jr. U. S. Navy, USS Raleigh Fleet, P. O. San Francisco, California.

WANTED—S&W 357 MAGNUM 6½ or 8¾", S&W K-22 or 38 Masterpiece, 38 Colt O.M. H.B. and ammunition, Springfield 22, M-2 bolt and magazine complete, perfect or excellent. Winston Watson, 127 So. Cambridge, Orange, California.

WANTED—WINCHESTER SINGLE SHOT HIside 2R Lovell, with scope blocks, complete reloading tools, bullets, primers. Mile Rolzin, Rt. #2, Cornell, Wisconsin.

TWENTY GAUGE, HIGH GRADE, LIGHT weight double, selective single trigger, prefer Fox. Give complete details. Nat Breedlove, Valdosta, Georgia.

WANTED—SINGLE BARREL SHOTGUNS AND shells. 8, 4, 24 and 32 gauge, Winchester Model 36, 9mm. Must be fair to better. J. H. Quisenberry, Atlanta, Illinois.

WANTED—M70 TARGET .300 MAGNUM OR 30-06, excellent to perfect. State times fired. Describe fully. Also Pacific .300 Magnum dies, shell holder and cases. Lt. A. M. Learned, NAS. Ottumwa, Iowa.

WANTED—KRAGS, MAUSERS, ENFIELDS, Springfields, as issued or Sporter's. Stocks & parts for same. Also Winchester 95 rifles. Relics. State price and condition. Thos. A. Greeley, 67 Palm St., Newark, N. J.

WANTED—USED PERFECT ACE. LT. H. SPILLner, Jr., Dept. of Communications, Scott Field, Illinois.

WANTED—BARREL SUITABLE FOR 219 ZIPper, 6 groove, 14" or 16" twist, 26"-28" long. Will trade Sharp's-Borchardt 45-70 rifle or action. H. D. Robbins, 1142 Hamilton Ave., Trenton, N. J.

.270 WINCHESTER, .257 ROBERTS AND .220 Swift, with scopes, perfect condition, with factory ammunition. Submit prices and descriptions. I. D. Shapiro, 4200 Boston St., Baltimore 24, Md.

WANTED—NEW, STANDARD WEIGHT, 220 Swift barrel for 70 Winchester. Maurice E. Lindsay, 131 Justine St., Bakersfield, California.

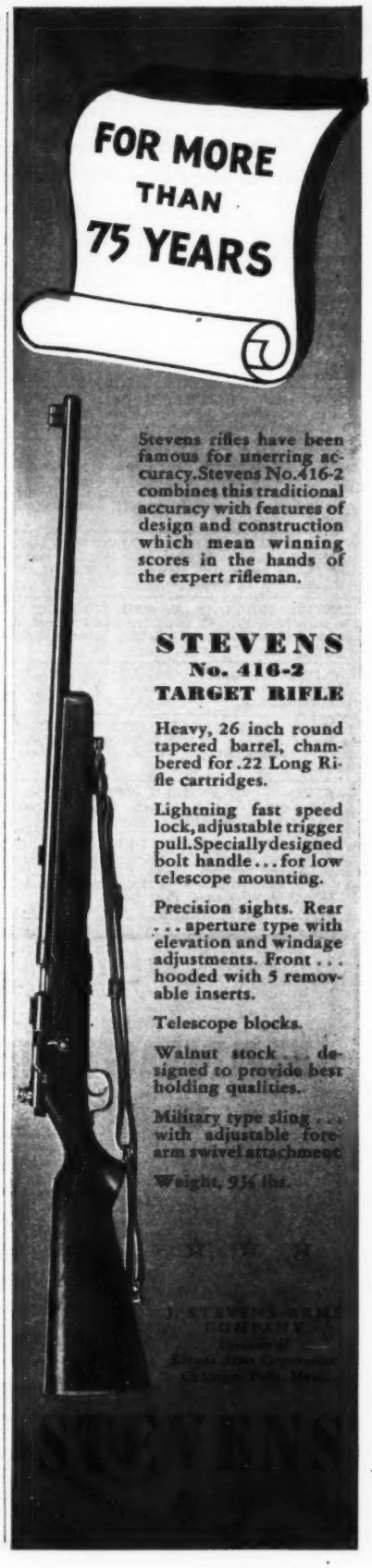
WANTED—REMINGTON 37 WITH LYMAN Super Targetspot. Will pay high price if rifle is in excellent condition and scope is optically perfect. Write price wanted, description and serial number. George J. Kilgore, 3509 Empire State Building, New York 1, N. Y. Life Member.

WANTED—S&W 22-32 KIT GUN OR 22 COLTS Police Positive, recessed cylinder, excellent to perfect, A. J. Backes, Langdon, No. Dak.

WANTED—WILL PAY $200.00 OR MORE FOR either a 6.5mm. Mannlicher Schounauer or Mauser carbine. Must be excellent to good using N.R.A. Standards. Dr. Russell C. Smith, Box C, Barron, Wisc. 5-44

WANTED—SAVAGE E. G. 22 H.P., 22 OR 24" barrel, Prefer 24" excellent to perfect. Fair price. J. E. Shuler, 2502 Euclid Avenue, DuBoistown, Penna.

WANTED TO BUY—AMMUNITION, GUNS, fishing tackle, outboard motors, what have you. H. E. Roehrs, 390 Demarest Avenue, Closter, N. J. 7-44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Precision sights. Rear ... aperture type with elevation and windage adjustments. Front ... hooded with 5 removable inserts.
Telescope blocks.
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Military type sling ... with adjustable forearm swivel attachment
Weight, 9¼ lbs.

WE PAY CASH FOR GUNS AND AMMUNITION. Alliance Gun Exchange, Alliance, Ohio. 7-44.

WANTED—MODEL 70, CALIBER 7MM. CONdition excellent, prefer Super grade. R. Negley, Box 1058, San Antonio, Texas. 4-44

WANTED — STEVENS 44½ ACTION, ETC, double set triggers, for centerfire, excellent. Lt. Joseph DeVreis, 3222 Palmira Avenue, Tampa, Florida.

WANTED—ONE GOOD SPRINGFIELD RIFLE, will send money at once. John Price, Yelm, Washington.

WANTED — SEDGLEY LEFTHAND SPRINGfield Sporter. 7mm preferred. State condition, caliber and price. Ralph Goodrich, Palmer, Alaska.

WANTED—A FEW UNSERVICEABLE RIFLES, shotguns, pistols and revolvers. Must be cheap and worse than poor. Lt. Col. E. Naramore, Erie Proving Ground, LaCarne, Ohio.

WANTED — COMMERCIAL 45 AUTOMATIC (arched housing) or 38 Super. Ralph Dittmann, 427 Bender Rd., Milwaukee, Wisconsin.

WANT — 300 MAGNUM MODEL 70 WINchester, very good to perfect condition. Paul Kraus, 10440 20th Avenue, South, Seattle 88, Washington.

WANTED—SPOT CASH FOR GUNS AND AMMUnition. Or trade for merchandise from Free "Guaranteed Bargain Catalog" featuring thousands of guns, "Hard-to-get" items; send 25¢ (refunded with first order). Klein's Sporting Goods, 507E South Halsted, Chicago.

WANTED—LATE MODEL TWELVE WINCHESter Sixteen Gauge, ribbed barrel, modified choke, very good or better, with ammunition. R. J. Green, P. O. Box 920, La Grande, Oregon.

WANTED—MODEL 70, 300 H&H, EXCELLENT, also Hensoldt or Zeiss 4X scope, late model Springfield receiver. Chet Paulson, 924 Pacific, Tacoma, Washington.

WANTED—.22 POLICE POSITIVE TARGET, EXcellent to perfect. Give details. W. Pike, Jr. Haddonfield, N. J.

WANTED—POTTER LEAD TESTER, 44 MOULDS, 44 Special excellent, firearms books, Rifleman before 1927. Lawrence Newton, 44 Associates, Auburn. Mass.

WANTED—W-1917 ENFIELD, NEW, PERSONAL use, be reasonable. Life Member. D. E. Burbank, 621 N. Park, Owosso, Mich.

WANTED—FOR COMBAT DUTY COLT .45 caliber revolver, target sights, Shooting Master or New Service Target preferred. Lieut. Robert J. B. Sullivan, U. S. Marine Corps R. % Mrs. T. A. O'Gorman, Jr., 420 Hibiscus Avenue, Palm Beach, Florida.

WANTED—FOR CASH: ANTIQUE PISTOLS, rifles, swords, daggers, World War rifles, relics, collections. Single Pieces. Robert Abels, 860 Lexington Avenue, New York 21, N. Y. 1-45

WANTED—M-70 WINCHESTER & M-54 WINchester. Condition not material. Want actions. Arthur Shivell, 4323 Sunset, Los Angeles 27, California. tf

WANTED—PISTOLS, ALL KINDS, 22 TO 45. Pay up to $75.00 and more for S&W 357, etc. Hawn, Box 52, Alhambra, California. 5-44

HUNDREDS OF FIREARMS AND ACCESSORIES purchased annually. You'll receive favorable prices—immediate reply. Write: James Serven, Santa Ana, California. tf

WANTED—FAIR PRICES PAID FOR TARGET Pistols, Revolvers, Rifles and Antique Guns of all kinds. Ship for estimate. Public Sport Shops, Dept. R-70, 13 So. 16th St., Phila., Penna.

WANTED—REMINGTON SPORTSMAN, 12 GA. 3 shot, Cutts comp, must be factory new, unfired. Springfield National Match, C stock, high number. unaltered, factory perfect, unfired. Robert J. McFeeter, 179 Lincoln Place, Irvington, N. J.

WANTED—348 WINCHESTER M71, 20 INCH Barrel preferred. C. Edwards, 5246 N.E. Sandy Blvd., Portland 13, Oregon.

WANTED—S&W MILITARY AND POLICE 2" barrel, round or square butt, S&W Kit Gun; Dies for Potter Duplex S&W 38 Special, type C or DCM Sporter Stock 30-06. E. S. Burrell, 717 Wyndmoor, Phila. 18, Penna.

GUNS WANTED—REVOLVERS, RIFLES, SHOTguns. State model, caliber, condition and best cash price first letter, no trades. The Jaymac Company, Jackson, Michigan. tf

WANTED—D.W.M. LUGER 7.65 CALIBER, 4½" barrel and grip safety. Excellent or better. Ludvig L. Larson, Box 162, Elk Point, South Dakota.

WINCHESTER MODEL 12, 3" MAGNUM CASH or trade OMT 22 and ammunition. Lawrence Woodsman shoulder holster, .38 Specials. B. H. Ellington, Fayetteville, N. C.

WANTED — BROWNING OVERUNDER, ICM. (weigh 7¼-7½ lbs.), latest model, or Winchester shotgun, Model 21, S.S.T., A.E., ICM, gauge 12 or 20. Woodsman, 4½" barrel, late model. (Describe guns fully). Langhorst, 318 Rosebank Ave., Nashville, Tenn.

WANTED—COLT WOODSMAN TARGET OR Sports Model in excellent condition. Will pay up to $50.00, or have a 21-jewel Elgin R. R. watch, excellent condition, will trade even. David Hvall, Samoa, California.

WANTED—52 WINCHESTER SPORTER AND 54 Winchester .22 Hornet. Must be very good to excellent. State price and condition. Earl Long, 818 West Belmont, Okmulgee, Oklahoma.

WANTED — BROWNING OU LIGHTNING Model, SST, automatic ejectors, 1C and Mod., or 12-gauge Smith, not over seven lbs., ST, automatic ejectors, 1C and Mod., 26 or 28 inch barrels. Must be excellent or better, describe fully, also price. Have nearly case 16-gauge shells, mostly No. 8 shot to trade for equal number 12-gauge shells No. 7½ or 8 shot. Major Edward Kaufman, Member, 425 Pearl Street, Fayetteville, N. C.

EXCELLENT HISIDE, 2R HORNET or .25-35. Perfect latest 52 round receiver, unslotted. Pay fair price. John Wylie, Emporium, Penna.

WANTED—COLT .45 AUTOMATIC GOVERNment Model. Excellent to perfect throughout. Arched housing, cartridges, state price wanted. Pvt. Philip Black, #541767, Signal Battalion, Class 81a, Brs. 316 Lower South, Camp LeJeune, New River, N. C.

WANTED—BENJAMIN AIR PISTOL, GOOD, very good, excellent or perfect condition. De Marcellus, Redlands, California.

WANT—SPRINGFIELD, ENFIELD, MAUSER Actions, parts for same. 37 Remington and 52 Winchester late model actions. Messick & Wells Arms Co., 643 West Park St., Butte, Montana.

WANTED—BALLARD UNION HILL ACTION OR rifle with single trigger. Chester Nikodym, 1615 N.B.C. Building, Cleveland 14, Ohio.

WILL PAY GOOD PRICE FOR PERFECT REcessed Kit gun or .22-32, or will trade. Erving Saal, 1701 Carleton St., Berkeley 3, California.

WANTED—REDFIELD JR. MOUNT FOR M70 Winchester. Also .30-'06 ammunition. State age and condition. William Smith, 2015-15th St., N. W., Wash., D. C.

WANTED—CROSSMAN AIR RIFLE, GOOD OR better. H. D. Shaw, Gen. Del., Holbrook, Arizona.

WANTED—SINGLE SHOT TARGET PISTOLS, .22 caliber, must be excellent, describe fully. Edward S. Ridge, Trevose, Pa.

WANTED—PERFECT, UNALTERED THOMAS trigger for 52 Winchester. L. H. Albin, 406 Prospect Avenue, Hackensack, New Jersey.

WANTED—75 WINCHESTER SPORTER, EXCELlent to perfect. F. M. Hannan, 53 Roger Place, Floral Park, N. Y.

WANTED—.357 MAGNUM SMITH & WESSON Revolver, 8¾ inch barrel. As near perfect as possible, also ammunition for gun. Wilbur S. Alvarez, 2072 Edison Avenue, Jacksonville 4, Florida.

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WANTED — DRIVER OR DELTA BENCH GRINDER ½ horse 3450 revolutions, 110 volts, 60 cycles, also Dewitts vise grip pliers. Henry Adolphi, 77-D McNeal, Bremerton, Washington.

WANTED—EXCELLENT M-70, .257 AND REDfield Jr. for Weaver. Pacific tool, .30-06 or .30-40. G. W. Vail, 6533 Templeton, Huntington Park, California.

WANTED — COLT WOODSMAN, STANDARD Hornet barrel for M70 Winchester. Both excellent or better. H. H. Watson, 109 Central Ave, Tracy, California.

WANTED—A KRAG, ENFIELD, OR SPRINGfield, for remodeling, good or better, some 173 gr. BT. or other 30 caliber jacketed bullets. A. 97 Winchester shotgun, 12 ga. with a few shells. E. L. Rogers, Harvard St., Wenatchee, Washington.

WANTED—BY MEMBER FOR PERSONAL USE. .218 Bee or .22 Hornet cartridges, #4198 or 3031 or Hi-Vel #2 rifle powder. A. Zeiss range finder. Please advise what you have to offer and price. E. M. Smith, 117 E. Merrick St., Shreveport 57, Louisiana.

WANT—H&R FOLDING SHOTGUN; 45, 1911 Automatic; 22 Police Positive; 22 Hi-Standard; 45 Riot shells; 32 long Colt shells. Don Gowen, 322 Plant. Tampa, Fla.

WANTED—AIR MATTRESS FOR SLEEPING bag. Lt. Robert Davidson, 301st Materiel Sqdn., Smoky Field, Salina, Kansas.

WANTED — S&W MAGNUM, WINCHESTER Model 52 Sporting Rifle and Photrix SS exposure meter. State condition and price. Victor E. Kecane, 424 No. Lockwood Ave., Chicago 44, Illinois.

WILL PAY UP TO $60.00 FOR .22 MATCH Target Woodsman. Must be perfect. Examination privileges. R. Talmage, 327 Louisiana St., Corpus Christi, Texas.

WANTED—WINCHESTER MODELS 70 IN .270, .257, 74, in 22 long rifle. Components for .270, .257, large and small rifle primers, .30 caliber, hunting type bullets. Alfred Hovelsrud, Trail, Minn.

WANTED—BARRELS FOR FULTON 12 GA. shotgun. 100 gr. pointed expanding 270 bullets. 30 caliber sporting bullets, large rifle primers. For trade have about five pounds of tin, 300 Swift case fired once. Send one dollar for pencil sketch of make it yourself powder scale. Accurate to one tenth grain or less. E. G. Dahl, Lodgegrass, Mont.

WANTED—12 GAUGE PUMP. A1 MECHANIcal condition. A. L. Terhaar, 6425 Cross St., Jacksonville, Fla.

WANTED—REASONABLE MAUSER, SPRINGfield, Enfield actions. 22, 30 caliber barrels. 63 Winchester and 22 revolver. Wilkerson, % Delta Air Corporation, Monroe, La.

WANTED—12 GAUGE MAGNUM SHOTGUN, must be in good shape. J. E. Heuston, Ripley, Okla.

WANTED — .22 REMINGTON MODEL 512 Sportmaster, very good or better. Pay fair price. Letters answered. Denver Purdy, Dawson Springs, Kentucky.

WANTED—COLT SUPER MATCH. 38 AUTOmatic pistol, late model, with factory adjustable sights. Perfect condition, write me, description, serial, and price. Fred Pope, West Lebanon, New Hamp.

WANTED—ONE SET 30-06 DIES FOR PACIFIC Tool. Also binoculars Bausch & Lomb 8x30. Will trade eight boxes .348 factory sporting ammunition for like amount .30-06. Art Leffler, 430 Pacific Ave., Long Beach 2, California.

WANTED—FOR CASH OR TRADE—PRECISION tools, dial indicator, lathes, milling machine, etc. Also all kinds old actions for parts. P. O. Ackley, Barrelmaker, 2747 Monroe Blvd., Ogden, Utah.

WANTED—MODEL 70, 30-06, 270, OR 257 REMington, 8½ or Winchester 120 primers. Pacific powder scales. 280 Ross shells. Mr. K. L. Reese, 18492 Rowe St., Detroit 5, Michigan.

WANTED—COLTS WOODSMAN, M70, 270 SAVage M219 Hornet. Pacific dies for 270, K-Hornet, primers, 270 bullets, 6x30 featherweight binoculars. W. G. Martin, 3379 Santa Ana, Huntington Park, Calif.

SWAP 8 BOXES 30-06, 42 ISSUE, FIVE BOXES. 30 Remington, Automatic, Silvertip, for 30-30, factory shells. Three boxes 25-35, Corekokt, four boxes 6.5mm. Western, for 300 Savage or pay cash. Want—81 Remington 300, with shells. Wanted 22 H. P. shells. Paul Hartman, Ennis, Montana.

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WANTED—SAVAGE .38-55 MODEL 1899 CARbine, or rifle, round barrel, solid frame, prefer carbine, excellent, very good, cartridges and components, reloading tool and accessories, full length resizing die, Pacific bullet seater, Ideal bullet sizing chamber. Bartlett Bankston, 130 West Cedar, Denver, Colorado.

WILL PAY $15.00 FOR LONG OR SHORT KRAGS in fair condition. Want copy of Dillins "Kentucky Rifle", Burgess (Colt) lever action rifle, and Colt Dragoon revolver. Louis Drolet, Richland, Michigan.

WANTED—ACTION ONLY, M-70, CALIBER 300 or .375 Magnum, very good to excellent, Smith & Wesson, caliber .45 M1917, very good or better. All details first letter. H. E. Conklin, R.F.D. #1, Tunnel, N. Y.

WANTED—B&L 65mm. EXCELLENT, BALLARD, Stevens, or Martini 22 actions. C. P. Quidas, 212 Waitman St., Morgantown, W. Va.

WANTED—FAIR PRICE FOR NEW OR NEW condition Model 70 .257 Roberts Standard grade Standard sights. George Semonsen, 591 Mission St., San Francisco 5, California.

WANTED—MAGAZINE FOR 30 LUGER. WINchester S.S. 30-40. Gus Causbie, Calico Rock, Arkansas.

WANT—#513TR, #513S OR M75R. PERFECT inside, priced reasonable. Lloyd Via, Cumby, Texas.

WANT—TWELVE GAUGE AMMUNITION, HORnet ammunition, components, Weaver 330C, good duck decoys, hip boots, size, #10. Edward Larralde, 4800 Hampton Road, LaCanada, California.

WILL PAY $35.00 FOR AN ARMY ENFIELD IN good condition. H. G. Buzzell, Clark School, Hanover, N. H.

WANT—16 GAUGE TRAP OR SKEET LOADS, will trade Fulton hammerless and Winchester 37 both 12 ga. Buy or trade. Ray L. Johnson, Almira, Washington.

WANTED—S&W 44 SPECIAL, 4 or 5", COLT 22 Bankers Special, both perfect. Capt. O. K. Wolber, 2500 Amherst Avenue, West Los Angeles 34, California.

WANTED—VARMINTER, HORNET, K-HORNET, Lovell, 257 Roberts or other good Vermin rifle. Must be excellent to perfect. Reasonably priced with scope and rather good supply ammunition or components. Give price, complete description and amount ammunition. Will pay fair price for excellent Target Woodsman with ammunition. Also want 30 caliber Luger, 38, 32 & 380 A.C.P. cartridges. All letters answered. C. A. Carr, P. O. Box 308, Grand Prairie, Texas.

WANTED—ENFIELD ACTION, VERY GOOD condition. State price. Walter Voss, 220 Olin, Girard, Penna.

WANTED—LARGE RIFLE PRIMERS, BULLET lubricator and sizer, .25 bullets, Alaskan or 330S scope. H. Blain, Big Creek, California.

WANTED—OFFICERS' MODEL TARGET .22 OR 38 Special, K22 Woodsman 4½ or Match Target, Need .22 shorts and long rifles. Clyde Kennedy, 11768 Wyoming, Detroit, 4, Michigan.

WANT—JUNIOR TARGETSPOT FOR CONVERsion job. Pacific tool. Pacific scale. Ideal powder measure. Electric polisher, approximately 1400 RPM. Electric cellar drainer or sump pump (can furnish priority). Connie Malinowski, So. Deerfield, Mass.

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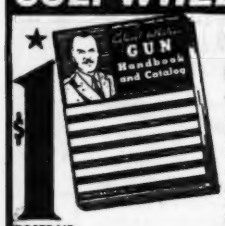

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WANTED—218 BEE MODEL 65, MARLIN 39A, Pellet air rifle, very good or better. Gwin Bebout, 2107 S. Walnut St., Muncie, Indiana.

WILL PAY $20.00 FOR SHARPS-BORCHARDT action good condition, more for paneled sides. Describe. Harry Lee, 400 West Madison, Chicago 6, Illinois.

WANTED—ITALIAN 1889 BODEO REVOLVER. Colt and Marlin machine gun barrels. D. L. Smith, 17301 Wisconsin, Detroit, Michigan.

WANT—MODEL 70's OR 54's, CONDITION OF barrels immaterial. Will trade Contax III camera, Seiden pneumatic auto body hammer complete with turret attachments and 6 anvils, and other body tools, or will pay cash. W. D. Anderson, 820 E. Emerson, Bloomington, Illinois.

WANTED—ENFIELDS, SPRINGFIELDS, SCOPES and 30-40, 30-06 ammunition. William Frewen, 700 Washtenaw, Lansing, 15, Michigan. 5-44

WANTED—PERFECT 35 CALIBER MODEL 141 Gamemaster. Special or Standard grade, with ammunition. Woodsman 4½" excellent to perfect. Give details and lowest prices. V. Patterson, South Ryegate, Vermont.

WANTED—MODEL 720 REMINGTON 30-06, also model 25 Remington pump cal. 25-20 or 32-20. Must be excellent or better. D. D. Baer, Honesdale, Penna.

WANTED—WALNUT HILL HORNET OR K-Hornet, also Hornet ammunition. G. W. Dalton, Richlands, Va.

WANTED—MODEL 70, 30-06 STANDARD, VERY good to excellent, hunting scope and mounts, state condition and price all letters answered. John Caldwell, Receiving Department, Hanford Engineer Works, Hanford, Washington.

WANTED—DOUBLE BARREL 12 GA. MUZZLE loading shotgun, .270 full length resizing die, .45 caliber Sharps rifle, Hornet ammunition and components, .270 Sporting bullets, .45 caliber Colt Automatic Krag rifle as issue, #8 Winchester scope sight, good .38 Officers Model, Remington Model 241 L.R. Remington Model 81, caliber 35. All letters answered. W. I. Bowman, 22 No. Hazel St., Danville, Illinois.

WANTED—HI-WALL OR SHARPS-BORCHARDT action, Zipper ammunition, tools, L.R. primers, pay cash or trade 22 L.R., 12 gauge ammunition, S.R. primers. Trade 70 K-Hornet, tools, components. J. W. Eatman, Cuero, Texas.

WANTED—STEVENS 410 SINGLE SHOT PISTOL. Zeiss featherweight binocular. G. Bennett, Box 81, Hartford, Wisconsin.

WANTED—WINCHESTER MODEL 70 SWIFT, standard or super grade. With or without scope. Excellent to perfect. Also ammunition. Describe fully. A. F. Mechling, 107 Urania Ave., Greensburg, Pa.

WANTED—30-06 SPRINGFIELD OR ENFIELD as issued, also bayonets. Robert Abels, 860 Lexington Ave., New York 21, N. Y. 1-45

SHARPS RIFLES WANTED—ESPECIALLY WANT fine Criedmoor Target Models and heavy barreled buffalo guns. Also Sharps ammunition and bullet moulds. Only guns in fine condition. M. C. Clark, 169 No. La Peer Drive, Beverly Hills, California.

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WANTED—10 MAGNUM, WINCHESTER, RIB 12 Magnum., S&W 357, 70 in 220, 30-06 or 270 Winchester 28 pump, double 28, single trigger. Charles Griffeth, Monterey Park, California. 5-44

WANTED—GUNS AND AMMUNITION. Bought, Sold and Exchanged. Raymond P. Lueddeke, 263 Leland Ave., Plainfield, N. J.

WANTED—TARGET SCOPE, ALSO 52 WITH iron sights. John Berg, 16 North Payne St., Quincy, 69, Mass.

WANTED—STEVENS IDEAL 44½ OR ENGLISH Model 044½ in .22 Hornet 30-30 and .22 L.R. Please describe fully and state cash price. E. C. King, 4700 Abbott Ave., South, Minneapolis, 10, Minn.

WANTED—LATE WINCHESTER 52 TARGET, metallic sights, also B&L prismatic spotting scope, full particulars first letter. Nathan Bucholtz, 5823½ Sunset Blvd., Hollywood, Calif.

WANTED—STEVENS MAYNARD JR. 22 CALIBER, very good or better. P.F.C. Merrill Brown, 17606 Santa Barbara, Detroit, Michigan.

WANTED—WINCHESTER 70 ACTION, 6½ primers, Remington 37 barrel. Herbert Harp, West Winfield, N. Y.

WANTED—ITHACA 16 GAUGE TRAP, PUMP, ventilated full choke 30" Model 37T. Perfect on Excellent. H. D. McEldowney, Enumclaw, Washington.

WANTED—1917 ENFIELD RIFLE ACTION IN good or excellent condition for experimenting only. Ralph Engel, Ida, Michigan.

WANTED — MUZZLE LOADING TARGET rifles, long scopes & bullet swages for above. Fancy engraved single shot rifles, also plain heavy target jobs. Brass or copper powder flasks. Screw-cutting lathe 6 or 8" wooden cases for M/L shotguns. Also want cheap 22 rifles with or without scopes. Walter Grote, 431 N. McKinley, Canton, Ohio.

WANTED—ABOUT 3½" TELEFOTO LENS FOR Filmo 16 mm. movie camera Cook preferred. Belgian Browning Automatic 12 ga. full choke, rib barrel. 7-35 Bausch & Lomb binocular. 32-20 Smith & Wesson, 6" target. All must be in excellent condition and priced reasonable. C. M. Carson, Dillingham, Alaska.

WANTED —SINGLE ACTION COLT .38 SPECIAL must be perfect. Winchester 70 Hornet or .257 Roberts. Clyde Kennedy, 11768 Wyoming, Detroit, 4, Michigan.

WANTED—20 GAUGE L.C. SMITH BARRELS good 16 or 20 gauge shotguns. John Pohlod, R.D. #1, North Olmsted, Ohio.

WANTED FOR CASH—WINCHESTER 52 SPORter, excellent or better. Lee Arnold, Marseilles, Illinois.

WANTED—ACCURATE BOLT ACTION REPEATing rifle, 257 or larger, with or without scope sight and ammunition, also need good .22 hunting rifle and handgun, for discharged service man. Can pay fair price for good hunting outfit. Elwood McClellan, 149 Bellaire, Louisville, Ky.

WANTED—22 HORNET, SAVAGE MODEL 19-H preferred. Francis Warfield, Severn A.A. County, Maryland.

I NEED A STANDARD WEIGHT MODEL 70 300 H&H Magnum. Also a 10 power Targetspot or Unertl. R. B. Sisk, Iowa Park, Texas.

WANTED—MODEL 70 WINCHESTERS IN Hornet, .220 Swift, 250-3000, .270, .257, 30-06 and 300 H&H. Target scopes, powder measures. Ideal tools in popular calibers and powder scales. Leslie Lindahl, Central City, Nebraska.

WANTED—SMITH & WESSON TERRIER, 38 caliber, 2" bbl., with two rounds of 200 grain bullet ammunition. F. Dwight Foster, Conover Lane, Red Bank, N. J.

AMMUNITION

WANTED—CASE 12-GAUGE SHELLS, REGULAR heavies, 6's, or 20's, 2½, 1 oz. 6's. Also .22 blanks. Elvin Henninger, Dubois, Idaho.

WANTED—300 SAVAGE CARTRIDGES. STATE condition, age and price. Bielefeld, New Knoxville, Ohio.

EXCHANGE 10M 22 SHORTS FOR 12 OR 16 gauge shot gun shells 7½-8-9 shot must be factory loads and fresh. Max Andrews, Box 441, Olean, N. Y.

WANT—22 SHORTS OR LONG AMMUNITION. Will pay ceiling price. Immediate cash distance no barrier. Peerless Vending Machine Company, Dept. AR, 220 West 42nd Street, New York, N. Y. Wisconsin 7-8610.

WE NEED .32 COLT AUTOMATIC, .32-20, .38 S&W cartridges. Will pay cash or trade for these sizes. Klein's, 506EC South Halsted, Chicago 7, Illinois.

FOR TRADE ONLY—THREE CASES 16-GAUGE Remington shells for 250-3,000 cartridges, ceiling prices. Would consider a few 25-20's. J. E. Fraley, Box 177, Converse, Indiana.

WANTED—22 CARTRIDGES, LONG RIFLES, Longs or Shorts. Give complete description and price. Wm. Hardee, Box 1703, Jackson, Mississippi.

WANTED—SHOT GUN SHELLS NEW OR USED load or empty 10 to 410 gauge. Willing to pay 50¢ per 100, for used shells, also 22 cartridges, 32 & 380 caliber for automatic. Louis Renzi, 29 East Pearl Street, Burlington, New Jersey.

FOR SALE—15 BOXES, 32 REMINGTON RIMless, rifle ammunition, new stock, $6.50 per hundred. Walla Fish, Snyder, Texas.

CARTRIDGES FOR COLLECTORS, SINGLE specimen, some boxed lots. List. Stamp. Ed Howe, Coopers Mills, Maine.

WANTED TO BUY—AMMUNITION, ALL TYPES wanted. State condition, age and caliber. Ceiling prices paid. Make offer. Stoeger Arms Corporation, 507 Fifth Avenue, New York, N. Y. tf.

30-06 (1918)—TWO SEALED 1200 ROUND CASES, $40.00 each, $75.00 for both. Consider target revolver in trade. W. Cutts, 527 Main Street, Stoneham 80, Massachusetts.

WANTED—500 TO 1000 ROUNDS, ANY LOT sizes, .22 Hi-Speed Hollow Point cartridges. John C. Sharon, Cadiz, Ohio.

CATALOG JUST OBTAINED A COLLECTION OF 2000 Modern and Antique handguns, send coin, 25¢, for your copy. Winchester cartridges, 32 S.L. soft point, $6.50 per hundred. Winchester 35 S.L. cartridges, $6.50 per 100. 38 Rim Fire Winchester Revolver cartridges, $2.00 per hundred. 38-56 Soft Point rifle cartridges, $10.00 per 100. 30 Govt. 1903 Soft Point 220 gr. Western Cartridges, $10.00 per 100. 30-06 Metal Patch 172 gr. late issue F.A. cartridges, $10.00 per 100. 30-06 Metal Point 1918 cartridges, 30% split necks, all in firing condition, $4.50 per 100. 7.62 Russian Metal point cartridges, $10.00 per 100. 303 British metal point cartridges, $12.00 per 100. .38 Automatic pistol cartridges, $4.50 per 100. 405 Winchester staynless, $15.00 per 100. 7.65 Mauser rifle cartridges, Peters Rustless, $10.00 per 100. 45 Automatic pistol cartridges, $6.50 per 100. Public Sport Shops, R-70, 13 So. 16th St., Phila., Penna.

TRADE ONLY—FULL BOXES .32 L COLT, 38 Special, .38 Automatic, 9mm. Luger, .41 L Colt, 38-70, 40-70, 7.65 Mauser and other calibers. Want—Sharps, Ballard, Bullard, Stevens cartridges and antique firearms. James Serven, Santa Ana, California. 4-44

WANTED—FOR CASH, AMMUNITION, ANY quantity, all calibers. Write: Public Sport Shops, Dept. R-70, 13 So. 16th St., Phila., Penna.

WANTED—348 AMMUNITION, 150 GR. PREferred, will trade. C. Edwards, 5246 N.E. Sandy Blvd., Portland 13, Oregon.

SEND THREE CENT STAMP FOR LATEST LIST of Modern and Obsolete cartridges. Kimball Arms Company, Woburn, Mass. tf

WANTED—22 SHORTS, LONGS, LONG RIFLE ammunition. Pay ceiling prices. George LaMarr, 2205 Boardwalk, Atlantic City, N. J.

WANTED—ONE BOX 9MM. LUGER CARtridges. Will trade box .357 Magnum or .45 autos. Must be clean stuff. Edward S. Wallace, #5 Oakwood Terrace, Newton Center, Mass.

TRADE—TWO BOXES .30 LUGER AMMUNITION for .22 LR's or 20 gauge shells. Eldon Zuber, Stamford, Texas.

WANTED—.375 HOLLAND AND HOLLAND Magnum ammunition. Also Pacific dies and components for same caliber. George N. Lathrop, Bristol, Vermont, Life Member.

WILL TRADE—.22 L. R., .30-'06, .30 REM., .38 Spec. or .30-30 for low speed .44-40-73 Win. shells. Also 5 boxes 12 ea., 7½ or 8's for 20 gauge same. Jim Vaughan, Rt. 4, Box 164, Hanford, Calif.

280 ROSS CTGS., 2 BOXES U. S. 145 GR. COPper tube, $4.00 box. 45-60 black powder, $1.65 box. 177 pellets, 500, $1.00. .22 pellets, 500, $1.25. 500, 22 B.B. caps, $3.00. Wanted—Old files RIFLEMAN, sporting magazines. Perry Spangler, 3510 Fenton Rd., Flint, Mich.

TRADE—.22 LONG RIFLE, FEW BOXES 12 gauge #8. Want—binoculars, varmint rifle, portable typewriter, or ? Sell or Trade—Two Model 70 stocks with pads, $12.00 each. James K. Zeigler, Box 72, Gonzales, Texas.

TRADE ONLY—60 REMINGTON CORE-LOKT 180 grain soft point .30-40 cartridges for same quantity factory loaded .348 soft points. Will pay express both ways. W. S. Miller, 812 Triphammer, Ithaca, N. Y.

TRADE—BOXES 20-GAUGE EVEN FOR SAME Hornets. Lambert Horn, 1700 Second Ave., Birmingham, Alabama.

WANTED—100 ROUNDS .38-40 PISTOL AMmunition, 1 box .410 #6. Edwin T. Nance, Jr., 310 E. Lane St., Shelbyville, Tenn.

FOR SALE—270 AMMUNITION 150 GR., SMITH custom load and factory $12.50 hundred. 20 gauge oz. balls, High Power, $6.00 hundred. Send money order with order. All shipped express. Tom Taylor, 537 Linden Street, Scranton, Pa.

TRADE—1500, .22 L. R. HIGH-SPEED FOR 1000 M1 or M2 bullets. Want game bullets also. E. M. Keaton, Route 3, Box 384, San Jose, Cal.

458, 38 ACP, 22, 35 WCF. OTHER ODDS AND ends. Trade—for 32 ACP, or 32 S&W or 32 RF SS. W. M. Hilley, Spur, Texas.

900 REMINGTON 7.65 MM., 219 GRAIN METAL cased bullets, 10¢ per shell or 8¢ per 900 lots. Paul Prosch, 6 East Sherman, Hutchinson, Kansas.

BOX LOTS B.P. RIFLE & PISTOL CARTRIDGES, 38 to 50 caliber. Some smokeless, some components. No list. State wants. Calvin Goddard, 3533 Quebec, Washington, D. C.

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PACIFIC TOOL, .44 SPECIAL BULLET SEATING and High Speed steel resizing die. Ideal lubricator sizer, .429, .431 dies. Weights, 300 to .2 grains. All for $40.00 M.O. W. A. Harris, Mt. Vernon, Wash.

WANTED—600 SISK LOVELL 55 GR., .22-3000 bullets. Will buy or trade 1000 Western long rifle cartridges, or 100 late issue .30-'06 cartridges, or 200, .30-'06 primed cases and 200 sized and lubricated 169 gas checks. Will trade 100 primed .30-'06 cases for 100, .25-20 Winchester S.S. cases. J. G. K. Miller, Kent, Ohio.

WANTED—PARTS FOR PACIFIC LOADING tool, primers for rifle, pistol and shotshells. W. A. Clark, Colton, N. Y.

PRIMERS, NMNC, SR, SP, LP, $15 per M. LR, $20.00 per M. F. Emerson, Box 54, Auburn, Mass.

FOR SALE—200 EMPTY H. P., .22 CASES, 4¢ a piece, 4 boxes, .32-40, R.S.N. loaded shells, $2.00 box. Chas. J. Jordan, Hermann, Mo.

WANTED—TWO THOUSAND NO. 57 REMINGton primers. Two thousand #4 Winchester cup primers, also Western primers. Will swap thousand Mid-range 38 specials for thousand 38 specials and pay ten dollars cash, or will swap for 22 LR. W. M. Perry, Member, Columbia, S. C.

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A-1 38 SPECIAL RELOADS, WELL CLEANED $4.50 per 100, boxed, (used N.M.N.C. primers) not junk, F.O.B. George Mitchell, 5207 So. Jay St., Tacoma, Wash.

WANTED—256 NEWTON AMMUNITION AND components, full length shell resizer, cast bullet sizer. Old Newton catalogues. Russell Jennison, Buckeye, New Mexico.

CARTRIDGES, .45 AUTOMATIC 5¢. DISPOSING of private collection guns, cartridges, primers, tools. List 9¢. Chas. Vanous, 6705 Reseda Blvd., Reseda, California.

TRADE—500, 41 GR. SISK SUPER LOVELL BULlets, 1000 #6½ Remington small rifle primers. Want large rifle primers, Remington 8½ or Winchester #120. Fred Woodruff, Athens, Ohio.

WANTED—POPE MOULDS, ANY CALIBER, AND other Pope Scheutzen accessories. Chester Nikodym, 1615 N.B.C. Building, Cleveland 14, Ohio.

CASES FOR VARMINTER, .250, .300 SAVAGE, 7mm. from 30-06, &c. Shivell, 4323 Sunset Blvd., Los Angeles 27, California. tf

FACTORY RELOADS. PER BOX, .45 AUTOmatic, $2.45; .38 Special Service Lead, $1.65; .30-06 metal capped, $1.85 (20). Morrison, 322½ South 6th Street, Springfield, Illinois.

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SALE—IDEAL RELOADING TOOL, EXTRA DIES, muzzle resizer for 38 Special, 33 Winchester, 300 H&H $1.00, full length resizer 38 Special, 218 Bee, 45 Colt, 2R Lovell $3.00, double adjustable chamber 270, 220 Swift, 218 Bee, $1.75, expanding chambers 300 H&H, 38 Special, 30-30, 30-40, 220 Swift, 22 Hornet $1.75, bullet sizing chamber 38 Special, 357, 45 Colt, $1.75. Used 45 Automatic holster 89¢, 44 Colt cartridges, $1.80. New full grain hip holster from $1.95 for any model revolvers or pistols, send for list. Warshal's, First-Madison BB, Seattle, 4, Washington.

MODERN AND OBSOLETE CARTRIDGES ALL sizes. Send list for quotation. Ed Howe, Coopers Mills, Maine.

.22 CALIBER JACKETED BULLETS, 42 GRS, $2.50 per hundred postpaid, send for sample. Milo Hill, Caledonia, Ohio.

DUPONT POWDER NOS. 4227, 4064, 4350, 4320, Hivel 2, 2400, Lightning, $1.60 per pound. No. 4759, No. 6, Unique, bulleseye. DuPont bulk and MX shotgun smokeless, $1.00 8-ozs. Send empty cans parcel post for all Hercules powders, and copy of federal explosives license. Chilled shot, all sizes. Buckshot in .25", .28", .30", .32", .34", .36", .38" and 44". $1.00 per 5# bag. Leslie Lindahl, Central City, Nebraska.

WANTED—LARGE PISTOL PRIMERS #2½, #20X, #111, #7 or F.A. #70, also want 2 lbs. of bullseye powder. Will pay cash. Member. Wallace Bethune, W-1-900-16 St., C.H.A. 3. Honolulu, 60, Hawaii, T. H.

TRADE—.45 A.C.P. CASES (SOME STEEL) and .30 carbine M1 cases, all fired once, for large pistol primers. Member. Wallace Bethune, W1-900-16 St., C.H.A.3, Honolulu, 60 Hawaii, T. H.

TRADE—HORNET COMPONENTS, PRIMERS, bullets, and cases, few Hornet, 6.5 and 7mm. factory loaded cartridges. For 8S, Wotkyns Morse 50 gr and large rifle primers. C. H. Lawson, 89 Myrtle Ave., Edgewater, N. J.

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TRADE—500 S.P. HAND MADE HORNET BULlets 45, 55 grain for 2000 116, Western 6½ or 209 primers. 5000 Winchester 108 primers for 116s. Sale—500, '34 FA 30-06s 7¢ each. FANM 30-06s 8¢ each. Wanted—Schmitt dies. No answers without stamp. W. M. Geiger, 5421 Winthrop, Indianapolis, Ind.

JORDAN RELOADER, 38'S HENSLEY & GIBBS 146 grain, double cavity, Swedging tools 45's, also lubricator. 30-06 custom and standard dies, full length, barrel, S. gauged, pitted in chamber. Extras. $100.00. 29K62 Singer Machine, $100.00, new. A. N. Nerone, 1846 Park Street, Harrisburg, Penna.

U.S. MARINE *CONSIGNS* 10,000 PRIMERS. $15.00 per 1000. Stamp for list. "Single Shot" Ratliff, N4912 Market, *Consignee*, Spokane, Washington.

WILL PAY 4¢ EACH FOR 30-30, 32 WINCHESter Special, 8mm. Mauser empties. 3¢ each for 351 Winchester S.L. 250-3000, 25-35, 270 Winchester, 30-40 Commercial, 30-06 commercial empties. We are paying good prices for bullets in all calibers. Have on hand large stock of bullets for trade. Have large trading stock of empty cases. Rifled slugs for trade or sale 15¢ each. We are buying small or large lots of components, our prices are good, state what you have, all inquiries answered. Jim Clark, 2029 W. Fondulac, Milwaukee, Wisconsin.

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WANTED—SHOT SHELL PRIMERS, WINCHESter New #4, Western #3, U.S. #4 and U.M.C. #33, also 32 & 380 cal. automatic. Sell or Trade—2300 #6 Winchester primers a lot, $12.00. Or, trade for 750, 22 cal. Louis Renzi, 29 East Pearl St., Burlington, New Jersey.

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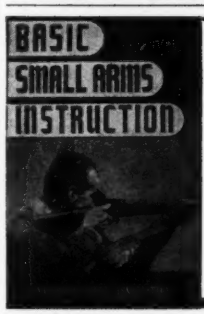

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FOR SALE—WINCHESTER 70 K-HORNET BY Griffin & Howe; Weaver 440; B mounts, Tilden safety, Whelen strap, trigger shoe. Perfect. 825 rounds ammunition, 230 empties. All for $195.00. Ace, King sights, Berdon bushing and anti-slap. 1000 Super X, $90.00. Sam Stites, Box 570, Youngstown, Ohio.

TRADE—FOR ANY GUN, PREFER COLTS S.A.A., I.C.S. course on surveying, R.R. and highway design. Consists of 79 booklets. Wanted for cash Colts S.S.A. and S&W Kit gun, any condition. J. B. King, Morristown, Tenn.

FOR SALE—ENTIRE LOT OF GUNS AND AMmunition, about $5000.00 stock. Mostly modern rifles, shotguns and handguns. Buyer must call and look. A chance to make a good profit. K. H. Green, No. Haverhill, N. H.

FOR SALE OR TRADE—6.35MM. SPANISH AUtomatic poor $5.00, Schofield 32 needs grips, springs, $2.00, H&R model 1897 nickel .38 fair, needs trigger spring $7.00 or will trade for .410 shells. Ray Augspurger, Winchester, Indiana.

TRADE—50, 20 GA. 13, .38 BLANKS, 40, .32 S&W black powder, 44, .25 long Stevens kleanbore for .410 shells only. Bill Augspurger, Winchester, Indiana.

K-.22, PERFECT, 100 CARTRIDGES, $65.00. Winchester 54 Hornet, excellent, 48 Lyman rear, 17A front, 438 Lyman scope, 200 factory cartridges, $90.00. Springfield Sporter, perfect in, good out, 29S Weaver, T mount, Redfield rear, Pacific ramp front, sling, recoil pad, checkpiece stock, 60 cartridges, $80.00. Winchester 52 Standard barrel, very good, folding rear peep, 17A with inserts, sling, scope blocks, $60.00. J. Harold Thompson, R.F.D. #1, Chenango Forks, N. Y.

TRADE—12 GAUGE NITRO EXPRESS NO. 6'S, .257 Roberts empty cases, Wilson CC gauge, .257 Roberts caliber, for Winchester No. 115 or 120, or Remington No. 9½ primers. Also want .25 caliber bullets. Earle Smith, 6243 29th N. E., Seattle, Washington.

MARLIN 25-20 SLIDE ACTION REPEATER NO. 29S, good condition, $25.00. Earle Smith, 6243 29th N. E., Seattle, Washington.

MOSSBERG MODEL L WANTED—TRADE homemade .224 jacketed bullets for small rifle primers one for two or what? H. W. Abbott, 430 Chestnut St., St. Marys, Penna.

WANTED—EXCELLENT BOLT ACTION 218 OR Lovell, with components, tools, ammunition. H. Likes, Northridge, California.

SPECIALIZE IN ALL TYPE OF AMMUNITION for Defense purpose. Thanks for your fine cooperation. Write. Adrien Grenier, North Grosvenordale, Conn.

.380 COLT, EXTRAS, GOOD, $30.00, .22 COLT OM, very good, shows holster wear, $60.00, .32-20 Colt, good, reloading tool, holster, 1000 primers, $55.00, .41 Colt, 78 shells, fair, $35.00. Winchester 25-20, M53, fair, $20.00. Winchester .32-20, M92, poor, $10.00. Marlin .25-36 repeater, fair, $20.00. 30-06 Remington-Enfield, good, bore perfect, 29S Weaver scope, $70.00. 30-06 Winchester M95, excellent in, good out, $50.00. .35 Remington Automatic, M8, good, 60 cartridges, $75.00. 12 gauge Western Field Repeater, good, $27.50. 12 gauge Marlin, M49 excellent, $42.50. Winchester M12-12, modified, very good in, fair out, $42.50. Winchester M97-12 cylinder, good, $27.50. Another, fair, $20.00. Winchester M97-12, two barrels, full choke and modified, good, $47.50. .38 Special reloads .03, 7.62 Russian .03 .30-06-33 clean, in clips, .06. Sears, El Reno, Okla.

WE HAVE FOR SALE A FEW VERY HEAVY combat type knives 9 inch blade, price $10.00. Money Order. A&B, 217 Conant St. Pawtucket, R. I.

FOR SALE—WINCHESTER 75 TARGET, 77 front, Marble-Goss rear, excellent, 500 L.R. cartridges, $69.00. Winchester 52 H.B. Speedlock, 17A, factory rear, stock v.g., metal excellent in and out $75.00. Same, Vaver sights, trunk case, $85.00. 1 M fresh ammunition extra. Browning O&U 12-28, rib, improved cyl. & Mod., double triggers, A.E., original lightweight, not Lightning Model. Very good out, excellent in, weight 6-9, $135.00. Savage 23A sporter, 22 L.R. 438 Lyman scope, checkered, swivels, v.g. out excellent in, 500 L.R. cartridges, $75.00. Winchester 65-218 Bee, Weaver 355 scope, sling, excellent, one hundred factory cartridges, $149.00. Winchester Swift, 48 sling, case, excellent in & out except few slight mars on stock, one hundred factory cartridges, $149.00. Wanted—Smith 12 ga. with poor or damascus barrels, short frame only. Target scopes. 7 or 8 power Zeiss, B&L. or Hensoldt lightweight binoculars. .22 jacketed bullets. Herman Treptow, 209 So. Main St. Milltown, N. J.

TRADE—REMINGTON 9½ NMNC PRIMERS for Ideal mould, #257312 or Modern Bond #257720 hollow point. W. Monfort, Ukiah, California.

WANTED—32 SELF-LOADING WINCHESTER, fair, good or better, condition barrel immaterial. Also 45 or 46 gr. hollow point 224 jacketed bullets. or lighter, 22 gas checks. Sell—Very good barrel for 25-20 Remington $10.00. Brand new #4 Ithaca 12, all extras, $200.00. E. W. Henke, 559 Evergreen, Ventura, California.

FOR SALE—L. C. SMITH, SINGLE TRAP, Olympic, beautiful stock, excellent, $115.00. Ithaca, single trap #4, excellent, $115.00. L. C. Smith 12 ga. F. M. field grade excellent, $60.00. Marlin O. U. 12 ga. F. M. visible crack in forearm, otherwise, excellent, $50.00. Iver Johnson, 22 Supershot in holster. $30.00. Gun Stocks Made To Order. Thomas Buchman, Stevenson, Maryland.

LATE 52 H.B., LYMAN POLAROID REAR, 77 front, sling, 500 factory matched EZXS, 1000 Kleanbores, perfect in, excellent out, $95.00. Practically new Enfield, Bishop stock, Redfield micrometer rear, blade ramp front, excellent, 200 Gov't issue, 100-180 gr. br. pt. bullets, 100 primers, $75.00. Krag, new rechambered barrel, beautiful walnut sporter stock, 48 rear Pacific ramp front, poor trigger pull, 200 Silver Tip cartridges, excellent, $85.00. Forrest Longfellow, Marietta, Ohio.

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WINCHESTER 348, DELUXE, EXCELLENT TO new, case, 2 boxes shells, $95.00. Winchester 75 Sporter, 57-E Lyman, excellent, case, 2 boxes shells, $45.00, Ithaca 37-S, modified choke, leather case, excellent to new, $100.00, Lemaire, 8-10-12 power, binoculars, case, good, $90.00, Colt 45 holster, belt, good, $45.00. Other arms. Dine for list. Ray Ferringer, Mayport, Pa. 5-44

16 GAUGE LONDON FLINT SHOTGUN & HORN $80.00, 38 inch barrel, about 9 lbs., perfect shooting form, high class & perfect. Penna. percussion rifle Deer, good, $40.00. Fine old Horn & bag $20.00. also a fine Horn $10.00. Very long flintlock barrel 20 gauge, double sights, perfect shape, $10.00. J. G. Dillin, Media, Pa.

MODEL 70 HORNET, VERY GOOD TO EXcellent, with Lyman sights, Redfield mount, 330 Weaver, with 8 power Litchert attachment, Lee floating Dot and fifteen boxes factory ammunition. $225.00. Wollensak 8x30 binoculars, perfect, $50.00. R. R. Duncan, Box 433, Nashville, 2, Tenn.

WINCHESTER M-1907 AUTOLOADER, 351 caliber, perfect in and mechanically, v.g. out except receiver worn dull. Extra magazine, 30 cartridges, $75.00. H. H. Gaffin, 5548 Carrollton, Indianapolis, Indiana.

SELL—52 WINCHESTER, OIL FINISHED Bishop stock, 24 inch barrel, 12 power Lyman Super Targetspot scope, with 500 long rifle cartridges, homemade case, perfect, $185.00. Swap 1000, 22 long rifle cartridges for 330 Weaver scope with B mount or 22 target pistol. C. L. Walser, 306 Chestnut St., Johnson City, Tennessee.

2—30 LUGERS, V.G., 3½", $60.00 EACH. German and Spanish 32 auto. good, $25.00 each. Spanish .25, good, $22.00. S&W 1st Model .22 short revolver, good, $20.00. Winchester 12 ga. auto., bore excellent, action good, 26", $30.00 M. O. only. Some cartridges. R. L. Mann, Jr., 117 Hanover Ave., C. H. Petersburg, Virginia.

WANT—TONG-TOOL WITH D.A. CHAMBER FOR .45 Colt, same .30 Luger. George Jackson, 36 River Ave., Norwich, Conn.

DUPONT SMOKELESS POWDER, STILL OVERstocked on the following: 4350, 4320, 4227, 4198, 4064. Six pounds, any assortment, $10.00. Ten pounds, $16.00, 4759, six eight-ounce canisters, $6.00. Federal Explosives License must accompany order. Limited supply small pistol, small rifle, large pistol primers, all N.M.N.C., sealed packages, at 1½¢. Robert Haelig, Boundbrook, N. J.

AS NEW, WOODSMAN 4½", TARGET SIGHTS two magazines, 200 cartridges, $60.00, Ortgie 25 cal., perfect, $20.00, S&W 38 Special M&P, 6", Audley holster, 100 cartridges, $60.00, Remington 141, 35 cal. Weaver 330, T mount, 80 cartridges, excellent, $100.00, Marlin O&U 410 model 90, box shells, new, $45.00, another 20 ga., excellent, 100 shells, $50.00, 100 shells, $50.00, 100, 40 grain Sisk Hornet bullets, $3.00, Model 1876 Winchester 40-60, 100 cartridges, good, $30.00, Box each 35 S&W, 9mm. long shot, $2.00, 100, 45-70 black, $10.00. Springfield 45-70 carbine, 100 cartridges, good, $20.00. 300, 38 RF long, $5.50, 200, 45 ACP Commercial, $12.00, 3 cans pistol no six, $4.50, Want—Shotgun primers. J. W. Varner, P. O. Box 281, Scranton, 1, Penna.

FOR SALE—GRAFLEX 4X5 R. B. AUTO. COOKE Lens 5x8—F:4.5 Series Two. Plate magazine, 2 cut film magazines, film pack adapter, focusing back, leather case, excellent condition, $250.00. J. F. Collins, 95 Devon Road, Rochester, N. Y.

FOR TRADE—98 MAUSER, NEW 62 WINCHESter, Want—Junior mount for 98 Mauser & Weaver scope. W. L. Stambaugh, 1211 El Paso St., Plainview, Texas.

FAIR SUPPLY OF NEW PRIMED CASES LEFT. 44-40 and 32-20, Remington Kleanbore or Peters Rustless, $3.75 per hundred. Bullets only, Remington Hi-Speed, 44-40, 160 grain, Hollow Point, Hollow Base, $6.75 per 200. 7mm., 175 grain soft point, $9.00 per 300. .38 Special, 158 grain Metal Patch Lead Bearing, $2.50 per hundred. 12-gauge rifled slugs, Winchester, $2.50 per box of 25. Please do not mistake any of these for loaded cartridges this time. Robert Haelig, Boundbrook, N. J.

SMITH & WESSON .357 MAGNUM, 6½", EXcellent or better, King Reflector Front, holster, 100 factory cartridges, $135.00. High Standard HB, 6¾", latest, excellent, sheepskin case, 500 Long Rifles, $60.00. Smith & Wesson Military & Police Target, 6½", appearance fair, otherwise v.g. or better, fine bore, tight, $45.00. Robert Haelig, Boundbrook, N. J.

COLT .45 ARMY AUTOMATIC, GOOD, $45.00, excellent Commercial Model, $65.00, consider trade. Thomas Nolan, 154-33 Twelfth Road, Whitestone, N. Y.

WANTED—MODEL 70 WINCHESTER 06 WITH or without scope, also Ideal or Pacific powder measure. Lawrence Westhoff, Rt. #1, Box 2116, Bremerton, Washington.

WANTED—ORIGINAL SHARPS & BORCHARDT rifle, 45-70 or 40 caliber, action must be perfect. Henry F. Tenk, 1739 29th St., Rock Island, Illinois.

TRADE—ZEISS ZIELKLEIN 2¼X ELEVATION only, with Redfield Mount. Condition excellent. Want Springfield 30-06 as issued above 1,277,000, excellent to perfect. J. F. Collins, 95 Devon Road, Rochester, N. Y.

10 GAUGE WINCHESTER '01, NEW BARREL 32" full, very good finish, 60 mixed cartridges, $50.00. Hi-Standard, Model A, 6¾" barrel, perfect, red and regular front sight, $55.00. S&W 32 long, new 4¼" barrel, very good finish, $45.00. George D. Matthews, 403 E. Main, Malone, N. Y.

.357 SMITH & WESSON MAGNUM, 5" BARREL, excellent, 250 handloads, 400 bullets, Pacific dies, $150.00. Claude Graves, 632 No. Linwood, Indianapolis 1, Indiana.

.257 GIPSON MAGNUM (.275 H&H CASE), ENfield action, heavy 27" Martin 5-groove barrel, 12" twist. Fired 30 rounds, bolt cocks on uplift, speedlock, reshaped bridge, bluing, chambering and action work done by Gipson. Fancy figured Bishop cheekpiece Monte Carlo stock, swivels and sling. Weaver 330 scope, Redfield Jr. mount, 56 primed cases, 90 bullets, Pacific dies, everything perfect, $175.00, without scope and mount $140.00. Claude Graves, 632 No. Linwood, Indianapolis 1, Indiana.

WANTED—WILL PAY GOOD PRICE FOR THE following in perfect condition. N.M. Springfield Sporter number above 1,275,767; Noske or Alaskan's scope with mount for Springfield, Enfield, high power eyepiece for Fecker, 6x30 or 7x50 binoculars, Woodsman. Paul Fedorys, 10 Hillside Ave., New York, 34, N. Y.

HEAVY 12, 12, 30, FULL 3" CHAMBER, 75 shells, case, excellent, $75.00. Remington .380 automatic, good, 180 rounds, $35.00. .410 single good, $10.00. GeHa 12.28 repeater, good, box shells, $20.00. Remington Speedmaster, 241, excellent, $60.00. 1917 S&W, excellent in, very good out, holster, 30 rounds, $55.00. Winchester S.S., 1873, 32-20, tang peep & folding gold front, good, 50 rounds, $28.00. 92, 32-20 fair, 35 rounds, $18.00. 92, 44-40 checkered stock, finish gone, $10.00. Herbert Straate, Waukon, Iowa.

FOR SALE OR TRADE—S&W .38 SPECIAL 4" barrel, blue, very good out, minor rust pits in bore, shot very little, $50.00. 150 Hornets 40 grain soft point, $10.50. 86, 45 Colt $6.00. Want—12 ga. shells and .38 Special Colt revolver. J. E. Fraley, Converse, Indiana.

WILL MAKE LIMITED NUMBER CHAMBERing reamers to trade for what I want. Want—M70 rifle action only above Hornet, N.M. Springfield high serial, perfect, high grade custom bolt action rifles, high grade German hunting scope, 4 to 6x, high luminosity, 10x45 Navy Binocular. While they last, Winchester Enfield barrels, new, rechambered .300 H&H, $20.00 each. Can also fit Enfield barrel to your Mauser action, 30-06 cal. Send $2.00 for postpaid kit of new small parts, firing pins, springs, extractors, hammers, etc., for .45 auto. 20 pieces in kit. G. R. Douglas, Box 773, Belle, West Va.

SELL—COLT .32 POLICE POSITIVE, FACTORY grease, new, 2 boxes cartridges, $45.00. Colt 22 Police Positive, new barrel, reblued, honed trigger by Colts—Nov. 1942, unshot, $40.00. Camp Perry 8" excellent out-in, Sanderson deluxe grip, seldom fired, wonderful groups, $50.00. Hi-Standard Model C .22 shorts, matted rib, balancer below, King front and rear, also work and action, slight palmrest, custom grip, few scratches but blue good, excellent in, high scorer, 2 boxes shorts, $65.00. Hi-Standard Model E heavy barrel specially plattened like Match Target, regular grip slightly altered, few spots on finish but good plus, excellent in, King rear, $55.00. Remington Express Model 30-06 gold bead front slightly loose, Lyman rear, scope block, very good out, excellent in, seldom fired one hunting trip, two boxes cartridges $80.00. Winchester 75 target .22, excellent in, out, made expert (N. R. A.) late 42, used little, $47.00. Argus camera 35mm. F:6.3 Anastigmat Triplet, leather case, excellent, bargain $35.00. (1) Super XX, (1) Kodachrome film for above purchaser for $3.00. First money order gets gun. Russell Harned, Life Member, Box 9, South Glastonbury, Connecticut.

SALE OR TRADE—WINCHESTER M70 ST. HORnet, excellent, T mounted 333 Weaver scope, $80.00. Winchester M70 St. 250-3000, perfect, target blocks, 29C scope on special mount, $100.00. Winchester M75 Target 22, excellent, blocks, 77a, Marble-Goss rear, $45.00. Remington 12C pump action 22 repeater, fair, $10.00. Colt Woodsman 6½ barrel, excellent in, mod. holster wear, Audley holster, $40.00. Mossberg Spotting scope, v.g., $18.00. B&L stand, $10.00. Want—52 HB or Bull, 52 Sporter, 4½" Woodsman, K22 or OM Target, 6x30 B&L binoculars, B&L or Argus Spotter, 50 grain 8S bullets, 60-70-87 grain 25 caliber bullets, also want large for small primers. E. N. Miller, 421 West Jackson St., York, Pa.

FOR SALE—SINE BAR, PERFECT, ACCURATE to one minute, $75.00 F.O.B. Description for stamp. Paul Fedorys, 10 Hillside Avenue, New York, 34, N. Y.

WANTED—CRIMPER FOR 28 GAUGE, PREFER Star No. 1. Ralph H. Mears, Elmhurst, Illinois.

.45 COLT NATIONAL MATCH, PERFECT, Target sights, 500 reloads, $115.00. 22 Colt Ace, Target sights, perfect, 100, 22 long rifle, $75.00. 38 Colt Officers' Model, 6" heavy barrel, target sights, excellent, 350 reloads, $70.00. K-22 Smith & Wesson, 6" barrel, Target sights, perfect, 100 long rifle, $65.00. Hi-Standard Model "D," 6¾" barrel, target sights, perfect, 100 long rifle, $65.00. Hi-Standard Model "A" 6¾ barrel, target sights, perfect, 100 long rifle, $50.00. 22 Savage Model 19 NRA, 22 long rifle, Lyman sights, and sling, excellent, $25.00. Crosman 22 repeating Air Rifle, excellent to very good, 250 pellets, $15.00. 8x30 power Wollensak binoculars with leather case, perfect, $55.00. Please send self addressed and stamped envelope for all answers. Richard Sayre, 141 No. Oakland St., Arlington, Virginia.

FOR SALE—WINCHESTER 1890, SHORT, $12.00, 32-40 moulds $2.00. Want Howe's Gunsmithing. Chevrolet 1928 driver's manual. Parker 16, 12, 10 hammer guns with Damascus or Bernard barrels. Remington single 20, 22 caliber pistols, revolvers, Remington #4 with hopelessly ruined bores. Banker's Special 22. Stevens 44½, 22 block. Luger & Pachmayr holster stocks. Webley Air pistol. Winchester flashlight. G. Schmeling, Germantown, Wisconsin.

30-06 CUSTOM-BUILT MAUSER SPORTER, 24" barrel, Bishop pistol grip stock, open sights, excellent, $75.00. 40 factory soft point cartridges if sold with gun, $4.00. 32 Colt Auto, with holster and 25 cartridges, good, $30.00. .380 Colt Auto, pearl grips, with holster and 30 cartridges, very good, $33.00. 45 Colt single action, 5½" blue, with holster & 40 cartridges, no middle hammer notch, otherwise good, $30.00. 38 caliber Iver Johnson, break-apart, 4" nickel, with 25 cartridges & holster, excellent, $14.00. Fred Kranz, Sauk Centre, Minnesota.

BEAUTIFUL SHARPS-BORCHARDT 2R, $85.00. New 20X Super Targetspot, $100.00. Winchester A5 scope, $25.00. New Model 70 Swift, target barrel, $40.00. Excellent M52B heavy, sling, Lyman #77, Marble-Goss, $85.00. Marble-Goss sights, $11.00. #116 primers, $1.50 hundred. Vaver #35 M2 for M70, $13.50. Swift cases, 10¢. D. E. Jacoby, 13812 Kelso Ave., Cleveland 10, Ohio.

PARKER VHE, 20 GAUGE, 28 X 14¼ X 2½, F&M, unused, $135.00. Winchester A5 scope, v.g., $35.00. Bausch & Lomb, 6 x 30, military stereo binoculars, factory conditioned, $60.00. Kodak, Duo 620, accessories excellent, $70.00. Ideal Armory tool, dies .30-'06, .30-30, 25 cals. etc., $45.00. Want—D.C.M. Sporter, 330 scope, Borchardt. Money orders. F. F. Tubbs, 3647 Lilac, Lansing, Michigan.

HORNET, 19 SAVAGE, V.G., WOLLENSAK 4X scope, fair, 184 handloads, 420 primers, 175 empties, 71 bullets, pound 2400, $68.00. Enfield Sporter, .30-'06, v.g., 29S, 60 cartridges, 240 FA70 primers, 400 empties, 300 jacketed bullets, 300 GC bullets, 5 pounds powder, $90.00. Pacific Hornet dies, $10.00. Bond double cavity mould, 311910 GC and 358675, $5.50. Underwood noiseless 77 portable typewriter, pica type, very good, $55.00. Life Member, Les Albee, Philip, South Dakota.

WANTED—H&R SINGLE SHOT PISTOL .22 cal., late model only. Also, Lyman tang sight Model 103. Also muzzle loading rifle, state size and condition. Emmert Studebaker, Tipp City, Ohio.

TRADE—M 70-06 INSIDE PERFECT, OUTSIDE very good. Lyman receiver sight, recoil pad. Want—M 70-300 H&H in like condition. C. C. Buckley, R. D. #2, Sharpsville, Pa.

WANTED—WINCHESTER MODEL 70, 250 or 257, excellent to perfect. Must stand inspection. Cash waiting but no inflated prices. T. G. Parker, Pikeville, Ky.

WANTED—JAPANESE NAMBU AUTOMATIC pistol. Italian Glisenti automatic pistol. 1928 Czech automatic pistol. Lt. W. G. Ogden, Route 1, Oak Harbor, Ohio.

ITHACA 28-GAUGE DOUBLE HAMMERLESS, latest model, #2 Grade, 28" modified and full, 14x2½x1½, 5# 14 oz., excellent, two triggers, non-ejector, 150 fresh high velocity loaded shells, 7½ chilled, $110.00. With 300 new primed shells, loading tool, wads and shot, $125.00. Robert Haelig, Boundbrook, N. J.

COLT 2½ BBL., P.P. ADJ. SIGHTS, EXCELLENT in, good out. Barrel needs bluing, $35.00. Colt O.M. excellent in, v.g. out. Special grips only, $48.00. Guns have honed actions, holsters too. George Lear, 220 Arizona, Atlantic, N. J.

WANTED—STEVENS 44½ OR WINCHESTER Single Shot action. Cpl. Cedric Maltpress, Hq. & Hq. Sq. SFFW, 49 Fourth St., San Francisco 19, Calif.

WANTED—SPRINGFIELDS SERIAL ABOVE 1,276,000, Rock Island above 286,000. Also Enfields and Krags, bores and actions very good or better, stocked or unstocked. New Remington or Western unprimed Krag cases or Winchester once-fired. Small 12-gauge reloading tools. Godfrey Lindberg, Fruitport, Michigan.

SAVAGE 99H, EXCELLENT OR BETTER, 80 fresh cartridges, $95.00. Winchester 70 Super Grade without cheekrest, .375 H&H Magnum, Lyman 48, bluing worn on floorplate, otherwise excellent, 200 fresh cartridges, $195.00. Winchester Model 65, 32-20, perfect, 100 fresh cartridges, $60.00. Model 53, same condition, also 32-20, same price. Winchester Model 92, takedown, 44-40, tang sight, perfect, 100 fresh cartridges, 24" octagon barrel, half magazine, $70.00. Winchester Model 62, Short, Long, or Long Rifle, perfect, 500 Long Rifles, $40.00. Winchester Model 90, octagon barrel, .22 short only, 500 shorts, $40.00. Savage 23AA, Parker Skyline Front, Tang Rear, excellent, 500 Long Rifles, sling, $45.00. Savage 23B Speedlock, 25-20, sling, excellent, 100 fresh cartridges, $60.00. Service Springfield, v.g. or better, fine bore, headspace perfect, as issued, low number, $50.00. 1903 Springfield as made up with Enfield stock and Mauser rear sight, v. g. or better, headspace o.k., $40.00. Winchester Model 70 Target Grade 220 Swift, never fired, 80 factory cartridges, Lyman 17A, Lyman 48, sling, $170.00. Robert Haelig, Boundbrook, N. J.

MODEL 52 WINCHESTER, NUMBER THIRteen, A5 Winchester scope, Fecker rear, Belding zeroing front, oiled checkered sporting stock, trapped butt plate, leather sling, four magazines, 500 cartridges, fired less than 3000 rounds entire life, accurate, mechanically like new, rates v.g. at $130.00. Photo and details available. Korelle-Reflex 2¼ x 2¼, Schneider Radionar F-2.9 lens, leather case, leather kit bag, extension tripod with swivelling pan head, focusing hood with magnifier, sunshade, yellow filter, six rolls film, perfect, $140.00. Ideal Universal powder measure #5, perfect, $10.00. Croft shooting coat size 42 unused, $5.00. Parker-Hale one piece plastic covered steel 30 cal. swivelling cleaning rod and brushes, v.g., $3.00. Mahogany reloading blocks 30 cal. 220 shell capacity, $2.00. Want factory Hornet ammunition. 12-gauge 7½ chilled high power shells. W. E. Fermann, 8122 St. Paul Ave., Detroit, Michigan, District 14.

FOR SALE—M. T. WOODSMAN, CUSTOM stocks, Reiser holster, perfect in, excellent out. Remington Model 37, .22 cal. and case perfect in, excellent out, $70.00 each or trade either for K-22 or O.M. Colt .22 cal. same condition. .30 cal. Enfield, as issued except Stoeger stock, sling, perfect in, excellent out, $35.00. C. H. Wingert, 321 North Barnett St., Brookeville, Pa.

LOOK! TRADE MY FECKER 1¼-16X TARGET scope, either Fecker or new Unertl mounts, Lee dot, recoil spring, sunshade, metal eye cup, etc., v.g. to perfect for .22 match ammunition ONLY as follows: Super Match Mark II lot #55SCC or Police Target-master lot #AAAA2. SELL—Redfield 102K for Krag, $4.50; Freeland "Kit box" scope stand, $4.50; Hercules (M.W.Co.) 20-28 single shotgun, auto ejector, good out, excellent in mechanically, $8.00. Basil Tuller, Galeton, Pa.

ITHACA, 37 SKT., 20-GAUGE PUMP, VENTIlated rib and Poly Choke, Jostam recoil pad, box of ammunition, perfect, satisfaction guaranteed, $115.00. Model 1886 Winchester .40-65, no blue, action and wood good, barrel poor, $16.00. Ira J. Moody, McGregor, Iowa.

FOR SALE—44 S&W SPECIAL, 6½", TARGET sights, very accurate, Roper grips, holster, excellent to perfect, factory box, two boxes handloads, $85.00. 44 S&W Special, 5", perfect inside, better than good outside, blue holster worn, stag grips, box shells, $55.00. O. L. Yancey, Monett, Missouri.

WANTED—375 MAGNUM AND SHELLS. HARriman, 22512 Beach Drive, St. Clair Shores, Mich.

WINCHESTER M 52 SPORTER, EXCELLENT IN and out. Stith mounts, Weaver 330 scope, Lee Dot, 500 L.R. H.V. cartridges, $195.00. Want—Win. M70, 270, excellent to perfect. Member. J. B. Wallace, 925 W. Greenfield, Milwaukee 4, Wisconsin.

From a painting by William Harnden Foster

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Born in 1866, the famous Winchester '66 Carbine helped to win the West. Born in 1941, Winchester's new Carbine is helping our boys to win World War II.

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